

Bay Area Air Quality Management District

939 Ellis Street
San Francisco, CA 94109
(415) 771-6000

Proposed MAJOR FACILITY REVIEW PERMIT

Issued To:

Phillips 66 Company – San Francisco Refinery
Facility #A0016

Facility Address:

1380 San Pablo Avenue
Rodeo, CA 94572

Mailing Address:

1380 San Pablo Avenue
Rodeo, CA 94572

Responsible Official

Willie W. C. Chiang, General Manager
510 245 4415

Facility Contact

Dale Iverson, Sr. Environmental Engineer
510 245 4439

Type of Facility: Petroleum refinery
Primary SIC: 2911
Product: refined petroleum products

BAAQMD Permit Division Contact:
Julian Elliot

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Ellen Garvey, Air Pollution Control Officer

Date

Draft

h:\pub_data\titlev\permit\f-draft\A0016.doc
Application # 16487
06/27/2002 8:58 AM

TABLE OF CONTENTS

I. STANDARD CONDITIONS	3
II. EQUIPMENT	7
III. GENERALLY APPLICABLE REQUIREMENTS.....	21
IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	24
V. PERMIT CONDITIONS	190
VI. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS.....	220
VII. TEST METHODS.....	301
VIII. SCHEDULE OF COMPLIANCE.....	190
IX. PERMIT SHIELD.....	304
X. GLOSSARY	305
XI. APPLICABLE STATE IMPLEMENTATION PLAN.....	311

I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 8/1/01);
BAAQMD Regulation 2, Rule 1 - Permits, General Requirements
(as amended by the District Board on 11/15/00);
SIP Regulation 2, Rule 1 - Permits, General Requirements
(as approved by EPA through 2/25/99);
BAAQMD Regulation 2, Rule 2 - Permits, New Source Review
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration
(as approved by EPA through 2/25/99);
BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking
(as amended by the District Board on 5/17/00);
SIP Regulation 2, Rule 4 - Permits, Emissions Banking
(as approved by EPA through 2/25/99); and
BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review
(as amended by the District Board on 5/2/01).

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on [] and expires on [when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after [when issued, enter 5th anniversary of issue date].** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for

cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required maintained pursuant to this permit, which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)

2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be [date of issuance] to [six months later]. The report shall be submitted by [one month after end of reporting period]. Subsequent reports shall be for the following periods: [____ 1st through ____ 30th or 31st] and [____ 1st through ____ 30th or 31st], and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be ____ 1st to ____ 30th or 31st. The certification shall be submitted by ____ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Haweighthorne Street
San Francisco, CA 94105
Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

K. Accidental Release [delete this provision if it does not apply]

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10. The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

II. EQUIPMENT

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
2	U229, B-301 Heater (natural gas, refinery gas fuel)	Petro-Chem	process heater	22 MM BTU/hr
3	U230, B-201 Heater (natural gas, refinery gas fuel)	Petro-Chem	process heater	62 MM BTU/hr
4	U231, B-101 Heater (natural gas, refinery gas)	Braun	process heater	96 MM BTU/hr
5	U231, B-102 Heater (natural gas, refinery gas, distillate oil, naphtha)	Braun	process heater	104 MM BTU/hr
7	U231, B-103 Heater (natural gas, refinery gas fuel)	Petro-Chem	process heater	64 MM BTU/hr
8	U240, B-1 Boiler (natural gas, refinery gas fuel)	Combustion Engineering	process heater	256 MM BTU/hr
9	U240, B-2 Boiler (natural gas, refinery gas fuel)	Born	process heater	61 MM BTU/hr
10	U240, B-101 Heater (natural gas, refinery gas fuel)	Foster-Wheeler	process heater	184 MM BTU/hr
11	U240, B-201 Heater (natural gas, refinery gas fuel)	Econo-Therm	process heater	108 MM BTU/hr
12	U240, B-202 Heater (natural gas, refinery gas fuel)	Econo-Therm	process heater	42 MM BTU/hr
13	U240, B-301 Heater (natural gas, refinery gas fuel)	Born	process heater	194 MM BTU/hr
14	U240, B-401 Heater (natural gas, refinery gas fuel)	Selas	process heater	556 MM BTU/hr
15	U244, B-501 Heater (natural gas, refinery gas fuel)	Alcorn	process heater	72 MM BTU/hr
16	U244, B-502 Heater (natural gas, refinery gas fuel)	Alcorn	process heater	81 MM BTU/hr
17	U244, B-503 Heater (natural gas, refinery gas fuel)	Alcorn	process heater	57 MM BTU/hr
18	U244, B-504 Heater (natural gas, refinery gas fuel)	Alcorn	process heater	23 MM BTU/hr
19	U244, B-505 Heater (natural gas, refinery gas fuel)	Alcorn	process heater	7 MM BTU/hr
20	U244, B-506 Heater (natural gas, refinery gas fuel)	Econo-Therm	process heater	23 MM BTU/hr
21	U244, B-507 Heater (natural gas, refinery gas fuel)	Econo-Therm	process heater	8.1 MM BTU/hr
22	U248, B-606 Heater (natural gas, refinery gas fuel)	Econo-Therm	process heater	31 MM BTU/hr
29	U200, B-5 Heater (natural gas, refinery gas fuel)	Foster-Wheeler	process heater	103 MM BTU/hr

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
30	U200, B-101 Heater (natural gas, refinery gas fuel)	Petro-Chem	process heater	50 MM BTU/hr
31	U200, B-501 Heater (natural gas, refinery gas fuel)	Petro-Chem	process heater	20 MM BTU/hr
43	U200, B-202 Heater (natural gas, refinery gas fuel)		process heater	230 MM BTU/hr
44	U200, B-201 PCT Reboil Furnace (natural gas, refinery gas fuel)		process heater	46 MM BTU/hr
97	Tank 100	external floating roof	crude oil	298 thousand bbl
100	Tank 103	external floating roof	ship ballast	47 thousand bbl
101	Storm Water Equalization Tank T-104	external floating roof	stormwater	5.5 million gal
102	Storm Water Equalization Tank T-105	external floating roof	stormwater	5.5 million gal
106	Storm Water Equalization Tank T-130	external floating roof	stormwater	10.6 million gal
107	Tank 150	internal floating roof	crude oil	68 thousand bbl
110	Tank 155	external floating roof	crude oil, gas oil, distillate oil	4.2 million gal
111	Tank 156	external floating roof	crude oil	100 thousand bbl
112	Tank 157	external floating roof	crude oil	100 thousand bbl
113	Tank 158	external floating roof	crude oil	101 thousand bbl
114	Tank 159	external floating roof	crude oil	136 thousand bbl
115	Tank 160	external floating roof	naphtha	75 thousand bbl
117	Tank 162	internal floating roof	naphtha	5300 gal
118	Tank 163	fixed roof	lube oil	5300 gal
121	Tank 166	internal floating roof	gasoline	18500 gal
122	Tank 167	external floating roof	naphtha	3.1 million gal
123	Tank 168	external floating roof	naphtha	75 thousand bbl
124	Tank 169	external floating roof	naphtha	75 thousand bbl
125	Tank 170	external floating roof	naphtha	75 thousand bbl
126	Tank 172	external floating roof	naphtha, MTBE	75 thousand bbl
127	Tank 173	external floating roof	gas oil, naphtha, distillate oil	76 thousand bbl
128	Tank 174	internal floating roof	crude oil, naphtha	76 thousand bbl
129	Tank 180	external floating roof	naphtha	76 thousand bbl
133	API Waste Oil Tank T-193	external floating roof	waste oil	22 thousand bbl
134	API Waste Oil Tank T-194	external floating roof	waste oil	22 thousand bbl
139	Tank 204	fixed roof	distillate oil	81 thousand bbl
140	Tank 205	fixed roof	naphtha	54 thousand bbl
150	Tank 241	external floating roof	gasoline	79 thousand bbl

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
151	Tank 242	external floating roof	gasoline	75 thousand bbl
177	Tank 287	external floating roof	gasoline	104 thousand bbl
178	Tank 288	external floating roof	diesel	104 thousand bbl
182	Tank 294	fixed roof	naphtha	40 thousand bbl
183	Tank 295	external floating roof	naphtha	13 thousand bbl
184	Tank 296	external floating roof	naphtha	50 thousand bbl
186	Tank 298	external floating roof	naphtha	47 thousand bbl
193	Tank 305	fixed roof	dye	2000 gal
194	Tank 306	fixed roof	dye	2000 gal
195	Water Treatment Sludge Tank T-501	fixed-roof	sludge	2500 bbl
196	Water Treatment Sludge Tank T-502	fixed-roof	sludge	2500 bbl
216	Tank 695	external floating roof	naphtha	2.0 million gal
238	Used Caustic Tank T-211	fixed-roof	caustic waste	10000 bbl
239	Stripped Foul Water Tank T-212	fixed-roof	sour water	10000 bbl
254	Tank 1001	external floating roof	gasoline	104 thousand bbl
255	Tank 1002	external floating roof	gasoline	104 thousand bbl
256	Tank 1003	external floating roof	gasoline	104 thousand bbl
257	Tank 1004	external floating roof	gasoline	104 thousand bbl
258	Tank 1005	external floating roof	gasoline	104 thousand bbl
259	Tank 1006	external floating roof	gasoline	104 thousand bbl
261	Tank 1010	external floating roof	naphtha, distillate oil	104 thousand bbl
286	Tank F3	fixed roof	diglycol amine (DGA) solution	25000 gal
293	Tank F805	fixed roof	diglycol amine (DGA) solution	34000 gal
294	Non-Retail Gasoline Dispensing Facility (GDF 7609 – 1 nozzle)	phase I / II vapor recovery	EW A4000	15000 gal underground tank
296	C-1 Flare	John Zink	STF-SA-42S	692 ton/hr flare rate, 6.6 MM BTU/hr pilot
300	U200 Delayed Coker	delayed coker	NA	56,000 bbl/day
301	Sulfur Pit 234	NA	NA	2.9 ton/hr
302	Sulfur Pit 236	NA	NA	3.1 ton/hr
303	Sulfur Pit 238	NA	NA	4.2 ton/hr
304	U229 Mid-Barrel Unionfining	NA	NA	12198 bbl/day
305	U230 Gasoline Unionfining Unit	NA	NA	25243 bbl/day
306	U231 Platforming Unit	NA	NA	18265 bbl/day

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
307	U240 Unicracking Unit	NA	NA	36914 bbl/day
308	U244 Reforming Unit	NA	NA	16087 bbl/day
309	U248 UNISAR Unit	NA	NA	16740 bbl/day
318	U76 Gasoline/Mid Barrel Blending Unit	NA	NA	80000 bbl/day gasoline 41200 bbl/day diesel
319	U215 Gasoline Fractionating Unit	NA	NA	7500 bbl/day
322	U40 Raw Materials Receiving	NA	NA	throughput limited at specific tanks, process units
324	U100_API Oil Wastewater Separator (with outlet channel cover)	NA	NA	10000 bbl/hr
334	Tank 107	external floating roof	crude oil	180 thousand bbl
336	U231 B-104 Heater (natural gas, refinery gas fuel)	Foster-Wheeler	process heater	111 MM BTU/hr
337	U231 B-105 Heater (natural gas, refinery gas fuel)	Foster-Wheeler	process heater	34 MM BTU/hr
338	U233 Fuel Gas Center			1.5 million cubic feet/hr
339	U80 Refined Oil Shipping Unit	gasoline shipping		294 thousand gal/hr
340	Tank 108	external floating roof	crude oil	200 thousand bbl
341	Tank 208	external floating roof	gasoline	103 thousand bbl
342	Tank 209	external floating roof	gasoline	103 thousand bbl
343	Tank 210	external floating roof	gasoline	103 thousand bbl
350	U267 Crude Distillation Unit	atmospheric/vacuum towers		33000 bbl/day
351	U267 B-601/602 Tower Pre-heaters (natural gas, refinery gas fuel)			101 MM BTU/hr
352	Combustion Turbine (natural gas, refinery gas fuel)	Westinghouse	191	259MMBTU/hr continuously
353	Combustion Turbine (natural gas, refinery gas fuel)	Westinghouse	191	259MMBTU/hr continuously
354	Combustion Turbine (natural gas, refinery gas fuel)	Westinghouse	191	259MMBTU/hr continuously
355	Supplemental Firing Duct Burners (natural gas, refinery gas fuel)	Coen		175 MM BTU/hr
356	Supplemental Firing Duct Burners (natural gas, refinery gas fuel)	Coen		175 MM BTU/hr
357	Supplemental Firing Duct Burners (natural gas, refinery gas fuel)	Coen		175 MM BTU/hr
360	Mid-Barrel Tank 223	fixed roof	distillate oil	110 thousand bbl
370	U228 Isomerization Unit			460 bbl/hr

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
371	U228 B-520 (Adsorber Feed) Furnace (natural gas, refinery gas fuel)	Selas		58 MM BTU/hr for S-371, 372
372	U228 B-521 (Hydrogen Plant) Furnace (natural gas, refinery gas fuel)	Selas		58 MM BTU/hr for S-371, 372
376	Tool Room Cold Cleaner	Build-All	DM-32	29 gal
377	Machine Shop Cold Cleaner	Build-All	DM-32	29 gal
378	Auto Shop Cold Cleaner	Snap-On	DM-226	18 gal
380	Activated Carbon Silo (P-204)			50,000 lb
381	Aeration Tank, Pact (F-201)	wastewater	100 ft dia	1.2 million gal
382	Aeration Tank, Pact (F-202)	wastewater	100 ft dia	1.2 million gal
383	Clarifier, F-203	wastewater	95 ft dia	0.69 million gal
384	Clarifier (F-204)	wastewater	95 ft dia	0.69 million gal
385	Media Filter (F-207 A-H)	wastewater		420 thousand bbl/hr
386	PAC Regeneration Sludge Thickener (F-211)		25 ft dia	44000 gal
387	Wet Air Regeneration (P-202)	Zimpro		15 gpm
388	Sludge Pretreatment (T276, F205)	30 ft dia by 24 ft 12 ft dia by 24 ft		17.5 ton/hr
389	Diatomaceous earth silo (F-214)			40000 lb
390	F-248 Thickened Sludge Storage	15 ft diameter open tank		27000 gal
392	Regenerated PAC Slurry Storage Tank F-266	fixed roof		42000 gal
398	MP-30 Flare	John Zink	Q5-48C	3 MM BTU/hr pilot
400	Wet Weather Wastewater Sump (with vented cover)	32 ft x 36 ft x 23 ft deep		175 thousand gal
401	Dry Weather Wastewater Sump (with vented cover)	33 ft x 25 ft x 26 ft deep		150 thousand gal
425	Marine Loading Berth M1	2 permitted arms		25000 bbl/day for S-425, 426
426	Marine Loading Berth M2	4 permitted arms		25000 bbl/day for S-425, 426
432	U215 Deisobutanizer			7600 bbl/day
433	MOSC Storage Tank	fixed roof		30000 gal
435	Reformate Splitter			18100 bbl/day
436	Deisopentanizer			13400 bbl/day
437	Hydrogen Manufacturing Unit			25 million scf/day
438	U110, H-1 (H2 Plant Reforming) Furnace (natural gas, refinery gas, PSA offgas)	Claudius Peters	reforming furnace	210 MM BTU/hr
439	Tank 109	external floating roof	gasoline, others	161 thousand bbl
440	Tank 110 (Alkylate)	external floating roof	alkylate	161 thousand bbl

Table II A - Permitted Sources

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
442	Tank 112	external floating roof	gasoline, others	161 thousand bbl
444	Tank 243	external floating roof	gasoline, others	113 thousand bbl
445	Tank 271 (Cracked Naphtha)	underground tank	naphtha	189 thousand bbl
446	Tank 310 (Isopentane)	fixed roof	isopentane	40 thousand bbl
447	Tank 311 (Isopentane)	fixed roof	isopentane	40 thousand bbl
448	Tank 1007 (Blendstock Receiving)	internal floating roof	gasoline, others	243 thousand bbl
449	Tank 285 (Cracked Naphtha)	fixed roof	naphtha	189 thousand bbl
450	Groundwater Extraction Trenches		ground-water remediation	3 gpm continuously
451	Tank 695	external floating roof	naphtha, gasoline, others	81 thousand bbl
1001	Sulfur Plant Unit 234 (including aux. burner)		Claus	70 long ton/day
1002	Sulfur Plant Unit 236 (including aux. burner, water stripper)		Claus	75 long ton/day
1003	Sulfur Plant Unit 238 (including aux. burner)		Claus	100 long ton/day
1007	U100 Dissolved Air Flotation Unit (with fixed roof)			7000 gpm
1008	U100 Primary Stormwater Basin			7000 gpm
1009	U100 Main Stormwater Basin			7000 gpm

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	Sulfur Plant Tail-Gas Treatment Plant	S-1001 tailgas	BAAQMD 9-1-301	none	ground level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			BAAQMD 9-1-307	none	250 ppmv SO ₂ , dry, at 0% oxygen
			BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H ₂ S in refinery fuel gas is removed and recovered on a refinery- wide basis
			BAAQMD 9- 2-301	none	ground level H ₂ S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)
			BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO ₃ and H ₂ SO ₄ , expressed as 100% H ₂ SO ₄
2	Sulfur Plant Tail-Gas Treatment Plant	S-1002 tailgas	BAAQMD 9-1-301	none	ground level SO ₂ concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 9-1-307	none	250 ppmv SO ₂ , dry, at 0% oxygen

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery- wide basis
			BAAQMD 9- 2-301	none	ground level H2S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)
			BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4
3	Sulfur Plant Tail-Gas Treatment Plant	S-1003 tailgas	BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 9-1-307	none	250 ppmv SO2, dry, at 0% oxygen
			BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery- wide basis

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			BAAQMD 9-2-301	none	ground level H2S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)
			BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4
4	SCR System	S-43	BAAQMD Condition 476	none	40 ppmv NOx at 3% O2 except at startup and shutdown
6	SCR System	S-351	BAAQMD Condition 12123	none	20 ppmv NOx at 3% O2 (over 3-hr period) except at startup and shutdown
7	Vapor Recovery System (3 electrically driven compressors)	Tanks S-139, S-140, S-182, S-388, S-443, S-445, S-446, S-447	BAAQMD 7-301, 7-302, 7-303	none	nuisance odors
			BAAQMD 8-5-311.3	none	95% overall control of emissions

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
			BAAQMD Condition 11219	none	vent emissions to the refinery fuel gas system
8	Sulfur Pit Vent Scrubber	S-301	BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 9-1-307	none	250 ppmv SO2, dry, at 0% oxygen
			BAAQMD 9- 2-301	none	ground level H2S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)
			BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
9	Sulfur Pit Vent Scrubber	S-302	BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 9-1-307	none	250 ppmv SO2, dry, at 0% oxygen
			BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery- wide basis
			BAAQMD 9- 2-301	none	ground level H2S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)
			BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
10	Sulfur Pit Vent Scrubber	S-303	BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 9-1-307	none	250 ppmv SO2, dry, at 0% oxygen
			BAAQMD 9-1-313.2 and SIP 9-1-313.2	none	95% of H2S in refinery fuel gas is removed and recovered on a refinery- wide basis
			BAAQMD 9- 2-301	none	ground level H2S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)
			BAAQMD 9-1-301	none	ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)
			BAAQMD 6-330	none	0.08 grain/dscf exhaust concentration of SO3 and H2SO4, expressed as 100% H2SO4

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
13	SCR System	S-352, S-355	BAAQMD Condition 12122, Part 9a	none	66 lb/hr NOx (3 hr average), 167 ton/yr NOx at S-352- 357; 528 lb/day NOx per turbine/duct burner set
		S-352	BAAQMD 9-9-301	NOx, CO, and O2 or CO2 CEM	9 ppmv at 15% O2
14	SCR System	S-353, S-356	BAAQMD Condition 12122, Part 9a	none	66 lb/hr NOx (3 hr average), 167 ton/yr NOx at S-352- 357; 528 lb/day NOx per turbine/duct burner set
		S-353	BAAQMD 9-9-301	NOx, CO, and O2 or CO2 CEM	9 ppmv at 15% O2
15	SCR System	S-354, S-357	BAAQMD Condition 12122, Part 9a	none	66 lb/hr NOx (3 hr average), 167 ton/yr NOx at S-352- 357; 528 lb/day NOx per turbine/duct burner set
		S-354	BAAQMD 9-9-301	NOx, CO, and O2 or CO2 CEM	9 ppmv at 15% O2
16	SCR System	S-371	BAAQMD Condition 1694	none	20 ppmv at 3% O2
17	SCR System	S-372	BAAQMD Condition 1694	none	20 ppmv at 3% O2

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
21	Diatomaceous Earth Silo Baghouse	S-389	BAAQMD Regulations 6-301	none	Ringelmann 1 opacity
			6-305	none	no nuisance fallout
			6-310	none	0.15 gr/dscf
			6-311	none	limit relative to amount of material processed
46	SCR System	S-438	BAAQMD Condition 12123	NOx, O2 CEM	10 ppmv NOx at 3% O2
		S-438	BAAQMD Condition 12123	none	32 ppmv CO at 3% O2
50	Hydrogen Plant Vent Scrubber	S-307	BAAQMD 8-2-301	none	15 lb/day POC from emission streams with more than 300 ppm total carbon
420	Marine Terminal Thermal Oxidizer	S-425 S-426	BAAQMD Condition 4336	none	2 pounds POC per 1,000 bbl loaded
			BAAQMD 8-44-301	none	2 pounds POC per 1,000 bbl loaded OR at least 95% by weight reduction of POC emissions

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (8/27/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/01/01)	N
SIP Regulation 2, Rule 1	General Requirements (8/27/99)	Y
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (11/2/94)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (06/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/95)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (12/20/95)	N
BAAQMD Regulation 11, Rule 10	Hazardous Pollutants – Hexavalent Chromium Emissions from Cooling Towers (11/15/99)	Y
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N
Throughput Limits	Throughput Limits (Permit Section VI)	Y
Notification Requirement – Source Startup and Shutdown	Notification Requirement – Source Startup and Shutdown (Permit Section VI)	N
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	Y
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	Y
Subpart M, 40 CFR 61	Asbestos Demolition and Renovation	Y
Subpart FF, 40 CFR 62 61.342(b)	National Emission Standard for Benzene Waste Operations, Facility with total annual benzene of 10 Mg/Yr or More are subject to 61.342(c) through (h)	Y
Subpart FF, 40 CFR 62 61.342(e)	National Emission Standard for Benzene Waste Operations, Alternative to 61.342(c) and (d)	Y
Subpart FF, 40 CFR 62 61.342(e)(1)	National Emission Standard for Benzene Waste Operations, Manage and treat “non-aqueous” waste	Y
Subpart FF, 40 CFR 62 61.342(e)(2)	National Emission Standard for Benzene Waste Operations, Manage and treat “aqueous” wastes such that “aqueous” wastes managed in uncontrolled systems do not exceed 6 Mg/hr of benzene	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
Subpart FF, 40 CFR 62 61.342(g)	National Emission Standard for Benzene Waste Operations, Compliance with 61.342(e) is determined by review of facility records and results from tests and inspections using methods and procedures specified in 61.355	Y
Subpart FF, 40 CFR 63 63.642	National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95) – General Standards	Y
Subpart FF, 40 CFR 63 63.642(g)	existing source owners/operators shall control emissions of organic HAPs to the level represented by the equation in this paragraph	Y
Subpart FF, 40 CFR 63 63.642(i)	existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) for all emission points, or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) for all other emission points within the source	Y
Subpart FF, 40 CFR 63 63.642(k)	existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g)	Y

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit. All other text may be found in the regulations themselves.

**Table IV – All Sources
 Facility-Specific Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/02/01)		
1-301	Public Nuisance Prohibition	N	
1-510	Area Monitoring	Y	
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Date Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance for Two Years	Y	
1-544	Monthly Summary	Y	
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)		
2-1-429	Federal Emissions Statement	Y	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-310.3	Heat transfer operations	Y	
6-311	Process Weight Rate Limits	Y	
6-401	Appearance of Emissions	Y	
District Regulation 8, Rule 2	Organic Compounds, Miscellaneous Operations		
8-2-301	Miscellaneous Operations: emissions shall not exceed 15 lb/day and 300 ppm total carbon on a dry basis	Y	
BAAQMD Regulation 8, Rule 4	General Solvent and Surface Coating Operations (05/15/96)		
8-4-302	Solvent and Surface Coating Operations	Y	
8-4-312	Solvent Evaporative Loss Minimization	Y	
8-4-501	Recordkeeping Requirements	Y	
BAAQMD Regulation 8, Rule 15	Emulsified and Liquid Asphalts (09/16/87)		
8-15-305	Prohibition of Manufacturer and Sale	Y	
8-15-501	Manufacturing Records	Y	
BAAQMD Regulation 8, Rule 40	Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/01)		
8-40-116	Exemption, Small Volume	Y	
8-40-205	Contaminated Soil	Y	
8-40-306	Contaminated Soil – Excavation and Removal	Y	
8-40-601	Contaminated Soil Sampling	Y	
8-40-604	Measurement of Organic Concentration	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-110	Conditional Exemption, Area Monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-110.1	comply with monitoring, records and reporting requirements of 1-1-510, 1-1-530, 1-1-540, 1-1-542, 1-1-543, 1-1-544	Y	
9-1-110.2	comply with 9-1-301 ground level SO ₂ concentration limits	Y	
9-1-301	Limitations on Ground level Concentrations	Y	
9-1-302	General Emission Limitation (applicable if monitoring required in 9-110 fails)	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Install a sulfur recovery plant	N	
9-1-501	Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540, 1-542, 1-543, 1-544)	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92) [only provisions which are different than current BAAQMD regulation are listed]		
9-1-313.2	Operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants- Hydrogen Sulfide (3/17/82)		
9-2-301	Limitations on Ground Level Concentrations	N	
9-2-302	Area Monitoring Requirements (Regulations 1-510, 1-530, 1-540, 1-542, 1-543, 1-544)	N	
BAAQMD Regulation 11, Rule 2	Asbestos Demolition, Renovation and Manufacturing (10/07/96)		
11-2-301	Prohibited Operations	Y	
11-2-302	Visible Emissions	Y	
11-2-303	Demolition, Renovation, and Removal	Y	
11-2-304	Waste Disposal	Y	
11-2-305	Waste Disposal Sites	Y	
11-2-501	Temperature Records	Y	
11-2-502	Waste Shipment Records	Y	
11-2-503	Active Waste Disposal Records	Y	
11-2-504	Conversion Operations	Y	

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart A	New Source Performance Standards – General Provisions (12/23/71)	Y	
60.1	Applicability	Y	
60.2	Definitions	Y	
60.3	Units and abbreviations	Y	
60.4	Address	Y	
60.5	Determination of construction or modification	Y	
60.6	Review of plans	Y	
60.7	Notification and record keeping	Y	
60.8	Performance tests	Y	
60.9	Availability of information	Y	
60.10	State authority	Y	
60.11	Compliance with standards and maintenance requirements	Y	
60.12	Circumstances	Y	
60.13	Monitoring requirements	Y	
60.14	Modifications	Y	
60.15	Reconstruction	Y	
60.16	Priority list	Y	
60.17	Incorporation by reference	Y	
60.18	General control device requirements	Y	
60.19	General notification and reporting requirements	Y	
NESHAP 40 CFR 61 Subpart A	National Emission Standards for Hazardous Air Pollutants - General Provisions (3/16/95)	Y	
61.1	List of pollutants and applicability	Y	
61.2	Definitions	Y	
61.3	Units and abbreviations	Y	
61.4	Address	Y	
61.5	Prohibited activities	Y	
61.6	Determination of construction or modification	Y	
61.7	Application for approval of construction or modification	Y	
61.8	Approval of construction or modification	Y	
61.9	Notification of startup	Y	
61.10	Source reporting and waiver request	Y	

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
61.11	Waiver of compliance	Y	
61.12	Compliance with standards and maintenance requirements	Y	
61.13	Emission tests and waiver of emission tests	Y	
61.14	Monitoring requirements	Y	
61.15	Modifications	Y	
61.16	Availability of information	Y	
61.17	State Authority	Y	
61.18	Incorporations by reference	Y	
61.19	Circumvention	Y	
NESHAP Part 61 Subpart FF; BAAQMD Regulation 11, Rule 12	National Emission Standard for Benzene Waste Operations (3/7/90); BAAQMD National Emission Standard for Benzene Emissions from Benzene Transfer Operations and Benzene Waste Operations (4/19/89)	Y	
61.342	Standards: General	Y	
61.342(a)	exemption for facilities with less than 10 Mg/yr of benzene in waste from 61.342(b) and 61.342(c)	Y	
61.355	Test methods, procedures and compliance provisions	Y	
61.355(b)(1)	quantification of annual waste quantity at sour water strippers (including ammonia stills at coke by-product plants) shall be made at the water effluent from the still	Y	
61.355(c)(1) (i)(A)	quantification of flow-weighted annual average benzene concentration (including ammonia stills at coke by-product plants) shall be made at the water effluent from the still	Y	
61.356	Recordkeeping requirements	Y	
61.356(a)	recordkeeping and retention requirements	Y	
61.356(b)	waste stream records	Y	
61.357	Reporting requirements	Y	
61.357(c)	reporting requirements for facilities with less than 10 Mg/yr total benzene in waste	Y	
BAAQMD Regulation 11-12	Incorporates by reference 40 CFR 61 Subpart FF	Y	

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAP 40 CFR 63 Subpart A	National Emission Standards for Hazardous Air Pollutants for Source Categories	Y	
63.1	Applicability	Y	
63.2	Definitions	Y	
63.3	Units and abbreviations	Y	
63.4	Prohibited activities	Y	
63.5	Construction and reconstruction	Y	
63.5(d)	Application for approval of construction or reconstruction	Y	
63.5(d)(1)	General Application Requirements	Y	
63.5(d)(2)	Application for approval of construction	Y	
63.5(d)(3)	Application for approval of reconstruction	Y	
63.5(d)(4)	Additional information	Y	
63.6	Compliance with standards and maintenance	Y	
63.7	Performance testing requirements	Y	
63.8	Monitoring requirements	Y	
63.9	Notification requirements	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.11	Control device requirements	Y	
63.12	State authority and delegation	Y	
63.13	Addresses of State air pollution control agencies and EPA Regional Offices	Y	
63.14	Incorporation by references	Y	
MACT 40 CFR 63 Subpart CC	National Emissions Standards for Hazardous Air Pollutants from Petroleum Refineries (8/18/95)	Y	
63.640(a)	applies to petroleum refining process units and to related emission points	Y	
63.640(c)(3)	wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
63.640(d)(1)	exclusion for stormwater from segregated stormwater sewers	Y	
63.640(l)(3)	owner/operator of a petroleum refining wastewater stream shall comply with the recordkeeping and reporting requirements including the reports of (l)(3)(i) through (l)(3)(vii) of this section	Y	
63.642	General Standards		

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.642(a)	apply for a part 70 or part 71 operating permit	Y	
63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
63.642(d)	initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
63.642(e)	keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
63.642(f)	all reports required by this subpart shall be sent to the Administrator	Y	
63.642(g)	existing source owners/operators shall control emissions of organic HAPs to the level represented by the equation in this paragraph	Y	
63.642(h)	new source owner/operators shall control emissions of organic HAPs to the level represented by the equation in paragraph (g) of this section.	Y	
63.642(i)	existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) for all emission points, or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) for all other emission points within the source.	Y	
63.642(j)	new source owner/operators shall demonstrate compliance with (h) by following procedures in (k). they may not use emission averaging compliance approach	Y	
63.642(k)	existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g)	Y	
63.642(l)	emission averaging compliance approach	Y	
63.642(m)	States may restrict existing source owners/operators to only use the method in (k) to comply without allowance to use the emission averaging compliance approach	Y	
63.647	Wastewater provisions	Y	
63.647(a)	Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.647(c)	Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, or to monitor process or control device operating parameters shall operate consistently with the permitted concentration or operating parameter values.	Y	
63.648	Equipment Leak Standards	Y	
63.648(a)	Existing source owners/operators subject to this subpart shall comply with the provisions of 40 CFR part 60 subpart VV and paragraph (b) of this section except as provided in paragraphs (a)(1), (a)(2), and (c) through (i) of this section. New source owners/operators shall comply with subpart H of this part except as provided in paragraphs (c) through (i) of this section.	Y	
63.648(b)	Monitoring data generated before 8/18/95 to qualify for less frequent monitoring of valves and pumps as provided in 40 CFR part 60 subpart VV or subpart H of this part and paragraph (c) of this section is governed by paragraphs (b)(1) and (b)(2) of this section.	Y	
63.648(c)	In lieu of complying with the existing source provisions of paragraph (a) an owner/operator may elect to comply with certain requirements of subpart H of this part except as provided in paragraphs (c)(1) through (c)(10) and (e) through (i) of this section.	Y	
63.648(d)	Upon startup of new sources, the owner/operator shall comply with section 63.163(a)(1)(ii) of subpart H of this part for light liquid pumps and 63.168(a)(1)(ii) of subpart H for gas/vapor and light liquid valves.	Y	
63.648(e)	For reciprocating pumps in heavy liquid service and agitator in heavy liquid service and agitators in heavy liquid service, owners/operators are not required to comply with the requirements in section 63.169 of subpart H of this part.	Y	
63.648(f)	Reciprocating pumps in light liquid service are exempt from section 63.163 and 60.482 if recasting the distance piece or reciprocating pump replacement is required.	Y	
63.648(h)	Owner/operators of sources subject to this subpart must maintain all records for a minimum of 5 years.	Y	
63.654	Reporting and recordkeeping requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – All Sources
Facility-Specific Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640. Recordkeeping and reporting for wastewater streams included in emission averages are specified in 63.653 and in paragraphs (f)(5) and (g)(8) of this section.	Y	
63.654(d)	Owner/operators subject to the equipment leaks standards in 63.648 shall comply with the recordkeeping and reporting provisions of paragraphs (d)(1) through (d)(6) of this section.	Y	

IV. Source Specific Applicable Requirements

Table IV – A.1
Source-specific Applicable Requirements
S-2 – UNIT 229, B-301 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – A.1
Source-specific Applicable Requirements
S-2 – UNIT 229, B-301 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S-2, S-3, S-4, S-5, S-7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.2
Source-specific Applicable Requirements
S-3 – UNIT 230, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	

IV. Source Specific Applicable Requirements

Table IV – A.2
Source-specific Applicable Requirements
S-3 – UNIT 230, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.2
Source-specific Applicable Requirements
S-3 – UNIT 230, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S-2, S-3, S-4, S-5, S-7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.3
Source-specific Applicable Requirements
S-4 – UNIT 231, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV – A.3
Source-specific Applicable Requirements
S-4 – UNIT 231, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S-2, S-3, S-4, S-5, S-7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must

IV. Source Specific Applicable Requirements

comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.4
Source-specific Applicable Requirements
S-5 – UNIT 231, B-102 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – A.4
Source-specific Applicable Requirements
S-5 – UNIT 231, B-102 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-502.1	CEMS for NO _x , CO, and O ₂ , or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S-2, S-3, S-4, S-5, S-7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.5
Source-specific Applicable Requirements
S-7 – UNIT 231, B-103 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		

IV. Source Specific Applicable Requirements

Table IV – A.5
Source-specific Applicable Requirements
S-7 – UNIT 231, B-103 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.5
Source-specific Applicable Requirements
S-7 – UNIT 231, B-103 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.2	Annual fuel firing limit at S-2, S-3, S-4, S-5, S-7 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.6
Source-specific Applicable Requirements
S-8 – UNIT 240, B-1 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.1	NOx, O2 monitors for steam generators with capacity of 250 MM BTU/hr or more	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		

IV. Source Specific Applicable Requirements

Table IV – A.6
Source-specific Applicable Requirements
S-8 – UNIT 240, B-1 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – A.6
Source-specific Applicable Requirements
S-8 – UNIT 240, B-1 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.7
Source-specific Applicable Requirements
S-9 – UNIT 240, B-2 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	

IV. Source Specific Applicable Requirements

Table IV – A.7
Source-specific Applicable Requirements
S-9 – UNIT 240, B-2 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.7
Source-specific Applicable Requirements
S-9 – UNIT 240, B-2 BOILER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.8
Source-specific Applicable Requirements
S-10 – UNIT 240, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	

IV. Source Specific Applicable Requirements

Table IV – A.8
Source-specific Applicable Requirements
S-10 – UNIT 240, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-110	Exemptions	Y	
9-10-110.5	Exemption: Fired on non-gaseous fuel when natural gas is unavailable for use.	Y	
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	

IV. Source Specific Applicable Requirements

Table IV – A.8
Source-specific Applicable Requirements
S-10 – UNIT 240, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Fuel oil usage limits and sulfur sampling requirement [Basis: Regulation 9-1-304, SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.9
Source-specific Applicable Requirements
S-11 – UNIT 240, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01;		

IV. Source Specific Applicable Requirements

Table IV – A.9
Source-specific Applicable Requirements
S-11 – UNIT 240, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 2, Rule 1	SIP approved 1/26/99 {adopted 11/01/89}}		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition			

IV. Source Specific Applicable Requirements

Table IV – A.9
Source-specific Applicable Requirements
S-11 – UNIT 240, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.10
Source-specific Applicable Requirements
S-12 – UNIT 240, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		

IV. Source Specific Applicable Requirements

Table IV – A.10
Source-specific Applicable Requirements
S-12 – UNIT 240, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14	Y	

IV. Source Specific Applicable Requirements

Table IV – A.10
Source-specific Applicable Requirements
S-12 – UNIT 240, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	[Basis: Cumulative Increase]		
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.11
Source-specific Applicable Requirements
S-13 – UNIT 240, B-301 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	

IV. Source Specific Applicable Requirements

Table IV – A.11
Source-specific Applicable Requirements
S-13 – UNIT 240, B-301 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-110	Exemptions	Y	
9-10-110.5	Exemption: Fired on non-gaseous fuel when natural gas is unavailable for use.	Y	
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2 or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.11
Source-specific Applicable Requirements
S-13 – UNIT 240, B-301 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.5	Fuel oil usage limits and sulfur sampling requirement [Basis: Regulation 9-1-304, SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.12
Source-specific Applicable Requirements
S-14 – UNIT 240, B-401 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	

IV. Source Specific Applicable Requirements

Table IV – A.12
Source-specific Applicable Requirements
S-14 – UNIT 240, B-401 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-110	Exemptions	Y	
9-10-110.5	Exemption: Fired on non-gaseous fuel when natural gas is unavailable for use.	Y	
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	

IV. Source Specific Applicable Requirements

Table IV – A.12
Source-specific Applicable Requirements
S-14 – UNIT 240, B-401 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NO _x , CO, and O ₂ or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.5	Fuel oil usage limits and sulfur sampling requirement [Basis: Regulation 9-1-304, SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Part F.1	Annual fuel firing limit at S-8, S-9, S-10, S-11, S-12, S-13, S-14 [Basis: Cumulative Increase]	Y	
Part F.3	Monthly fuel firing records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.13
Source-specific Applicable Requirements
S-15 – UNIT 244, B-501 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
------------------------	--	-----------------------------	-----------------------

IV. Source Specific Applicable Requirements

Table IV – A.13
Source-specific Applicable Requirements
S-15 – UNIT 244, B-501 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – A.13
Source-specific Applicable Requirements
S-15 – UNIT 244, B-501 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.14
Source-specific Applicable Requirements
S-16 – UNIT 244, B-502 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		

IV. Source Specific Applicable Requirements

Table IV – A.14
Source-specific Applicable Requirements
S-16 – UNIT 244, B-502 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

IV. Source Specific Applicable Requirements

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.15
Source-specific Applicable Requirements
S-17 – UNIT 244, B-503 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	

IV. Source Specific Applicable Requirements

Table IV – A.15
Source-specific Applicable Requirements
S-17 – UNIT 244, B-503 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NO _x , CO, and O ₂ , or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.16
Source-specific Applicable Requirements
S-18 – UNIT 244, B-504 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		

IV. Source Specific Applicable Requirements

Table IV – A.16
Source-specific Applicable Requirements
S-18 – UNIT 244, B-504 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.16
Source-specific Applicable Requirements
S-18 – UNIT 244, B-504 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.17
Source-specific Applicable Requirements
S-19 – UNIT 244, B-505 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		

IV. Source Specific Applicable Requirements

Table IV – A.17
Source-specific Applicable Requirements
S-19 – UNIT 244, B-505 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 9, Rule 10	Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.18
Source-specific Applicable Requirements
S-20 – UNIT 244, B-506 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – A.18
Source-specific Applicable Requirements
S-20 – UNIT 244, B-506 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.19
Source-specific Applicable Requirements
S-21 – UNIT 244, B-507 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		

IV. Source Specific Applicable Requirements

Table IV – A.19
Source-specific Applicable Requirements
S-21 – UNIT 244, B-507 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-111	Limited Exemption: Small Units: Between 1 and 10 MMBTU/hr and capable of firing fuel other than natural gas or LPG	Y	
9-10-217	Definition: Small Unit: Between 1 and 10 MMBTU/hr and capable of firing fuel other than natural gas or LPG	Y	
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-306	Small Unit Requirements	Y	
9-10-401	Control Plan Requirements	Y	
9-10-402	Control Plan Requirements, Small Units	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.19
Source-specific Applicable Requirements
S-21 – UNIT 244, B-507 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.20
Source-specific Applicable Requirements
S-22 – UNIT 248, B-606 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon		

IV. Source Specific Applicable Requirements

Table IV – A.20
Source-specific Applicable Requirements
S-22 – UNIT 248, B-606 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 9, Rule 10	Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.21
Source-specific Applicable Requirements
S-29 – UNIT 200, B-5 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – A.21
Source-specific Applicable Requirements
S-29 – UNIT 200, B-5 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.22
Source-specific Applicable Requirements
S-30 – UNIT 200, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD	Particulate Matter and Visible Emissions (12/19/90)		

IV. Source Specific Applicable Requirements

Table IV – A.22
Source-specific Applicable Requirements
S-30 – UNIT 200, B-101 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Regulation 6			
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	

IV. Source Specific Applicable Requirements

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.23
Source-specific Applicable Requirements
S-31 – UNIT 200, B-501 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	

IV. Source Specific Applicable Requirements

Table IV – A.23
Source-specific Applicable Requirements
S-31 – UNIT 200, B-501 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NO _x , CO, and O ₂ , or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.24
Source-specific Applicable Requirements
S-43 – UNIT 200, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	

IV. Source Specific Applicable Requirements

Table IV – A.24
Source-specific Applicable Requirements
S-43 – UNIT 200, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	

IV. Source Specific Applicable Requirements

Table IV – A.24
Source-specific Applicable Requirements
S-43 – UNIT 200, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NO _x , CO, and O ₂ , or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
NSPS 40 CFR 60 Appendix B	Performance Specifications		
Performance Specification 3	O ₂ and CO ₂ continuous emission monitoring systems	Y	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	Y	
Performance	H ₂ S continuous emission monitoring systems	Y	

IV. Source Specific Applicable Requirements

Table IV – A.24
Source-specific Applicable Requirements
S-43 – UNIT 200, B-202 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Specification 7			
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures		
Procedure 1	QA requirements for gas continuous emission monitoring systems	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part D.1	S-43 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part D.2	S-43, S-44 NOx emission limits [Basis: BACT, Cumulative Increase]	Y	
Part D.3	S-43, S-44 CO emission limits [Basis: BACT, Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.25
Source-specific Applicable Requirements
S-44 – UNIT 200, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
------------------------	--	-----------------------------	-----------------------

IV. Source Specific Applicable Requirements

Table IV – A.25
Source-specific Applicable Requirements
S-44 – UNIT 200, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	

IV. Source Specific Applicable Requirements

Table IV – A.25
Source-specific Applicable Requirements
S-44 – UNIT 200, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
NSPS 40 CFR 60	Performance Specifications		

IV. Source Specific Applicable Requirements

Table IV – A.25
Source-specific Applicable Requirements
S-44 – UNIT 200, B-201 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Appendix B			
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	Y	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	Y	
Performance Specification 7	H2S continuous emission monitoring systems	Y	
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures		
Procedure 1	QA requirements for gas continuous emission monitoring systems	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part D.2	S-43, S-44 NOx emission limits [Basis: BACT, Cumulative Increase]	Y	
Part D.3	S-43, S-44 CO emission limits [Basis: BACT, Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.26
Source-specific Applicable Requirements
S-336 – UNIT 231, B-104 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – A.26
Source-specific Applicable Requirements
S-336 – UNIT 231, B-104 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

IV. Source Specific Applicable Requirements

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.27
Source-specific Applicable Requirements
S-337 – UNIT 231, B-105 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)]		
1-107	Combination of Emissions	Y	
1-521	Monitoring May Be Required	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	

IV. Source Specific Applicable Requirements

Table IV – A.27
Source-specific Applicable Requirements
S-337 – UNIT 231, B-105 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NO _x , CO, and O ₂ , or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-	Y	

IV. Source Specific Applicable Requirements

Table IV – A.27
Source-specific Applicable Requirements
S-337 – UNIT 231, B-105 HEATER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	409.2]		
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.28
Source-specific Applicable Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	

IV. Source Specific Applicable Requirements

Table IV – A.28
Source-specific Applicable Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	

IV. Source Specific Applicable Requirements

Table IV – A.28
Source-specific Applicable Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
NSPS 40 CFR 60 Appendix B	Performance Specifications		
Performance Specification 3	O ₂ and CO ₂ continuous emission monitoring systems	Y	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	Y	
Performance Specification 7	H ₂ S continuous emission monitoring systems	Y	
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures		
Procedure 1	QA requirements for gas continuous emission monitoring systems	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.28
Source-specific Applicable Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Part B.1	S-351 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part B.2	S-351 NO _x emission limit [Basis: BACT, Cumulative Increase]	Y	
Part B.3	S-351 NO _x , O ₂ CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.29
Source-specific Applicable Requirements
S-371 – UNIT 228, B-520 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2,	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		

IV. Source Specific Applicable Requirements

Table IV – A.29
Source-specific Applicable Requirements
S-371 – UNIT 228, B-520 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Rule 1			
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	

IV. Source Specific Applicable Requirements

Table IV – A.29
Source-specific Applicable Requirements
S-371 – UNIT 228, B-520 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
NSPS 40 CFR 60 Appendix B	Performance Specifications		
Performance Specification 3	O ₂ and CO ₂ continuous emission monitoring systems	Y	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	Y	
Performance Specification 7	H ₂ S continuous emission monitoring systems	Y	
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures		
Procedure 1	QA requirements for gas continuous emission monitoring systems	Y	
BAAQMD			

IV. Source Specific Applicable Requirements

Table IV – A.29
Source-specific Applicable Requirements
S-371 – UNIT 228, B-520 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part C.1	S-371, S-372 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part C.2	S-371, S-372 NOx emission limits [Basis: BACT, Cumulative Increase]	Y	
Part C.3	S-371, S-372 CO emission limits [Basis: BACT, Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – A.30
Source-specific Applicable Requirements
S-372 – UNIT 228, B-521 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – A.30
Source-specific Applicable Requirements
S-372 – UNIT 228, B-521 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-301	Emission Limit for Facility, NOx: 0.033 lb NOx/MMBTU	Y	
9-10-301.1	...Start-up/Shutdown Contribution	Y	
9-10-301.2	...Out-of-Service Units Contribution	Y	
9-10-301.3	...Test-firing on Non-gaseous fuel Contribution	Y	
9-10-302	Interim Facility-wide NOx emission rate limit	Y	
9-10-303	Federal Interim Facility-wide NOx emission rate limit	Y	

IV. Source Specific Applicable Requirements

Table IV – A.30
Source-specific Applicable Requirements
S-372 – UNIT 228, B-521 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-10-305	CO emission limit	Y	
9-10-401	Control Plan Requirements	Y	
9-10-403	Clean-Fuel Extension Compliance Date	Y	
9-10-501	Initial Demonstration of Compliance Schedule	Y	Various
9-10-502	Monitoring	Y	
9-10-502.1	CEMS for NOx, CO, and O2, or equivalent monitoring	Y	
9-10-502.2	Fuel flowmeters	Y	
9-10-504	Recordkeeping	Y	
9-10-505	Reporting	Y	
9-10-600	Manual of Procedures for Compliance Determination	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
NSPS 40 CFR 60 Appendix B	Performance Specifications		
Performance Specification 3	O2 and CO2 continuous emission monitoring systems	Y	
Performance	Total reduced sulfur (TRS) continuous emission monitoring	Y	

IV. Source Specific Applicable Requirements

Table IV – A.30
Source-specific Applicable Requirements
S-372 – UNIT 228, B-521 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Specification 5	systems		
Performance Specification 7	H2S continuous emission monitoring systems	Y	
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures		
Procedure 1	QA requirements for gas continuous emission monitoring systems	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	
Part A.3a	TRS testing requirement [Basis: SO2 Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO2 Bubble]	Y	
Part A.4	SO2 emission limit [Basis: SO2 Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO2 Bubble; Regulation 2-6-409.2]	Y	
Part C.1	S-371, S-372 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part C.2	S-371, S-372 NOx emission limits [Basis: BACT, Cumulative Increase]	Y	
Part C.3	S-371, S-372 CO emission limits [Basis: BACT, Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

IV. Source Specific Applicable Requirements

Table IV – A.31
Source-specific Applicable Requirements
S-438 – UNIT 110, H-1 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 1	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	N	
2-1-501	Monitors shall comply with Volume V of the Manual of Procedures	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions requiring measurement of emissions	Y – note 1	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Manual of Procedures, Volume V	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (7/1/00)		
60.100	Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV – A.31
Source-specific Applicable Requirements
S-438 – UNIT 110, H-1 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO ₂ monitors as required by 60.105(a)(3))	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Appendix A	Appendix A to Part 60 – Test Methods	Y	
NSPS 40 CFR 60 Appendix B	Performance Specifications		
Performance Specification 3	O ₂ and CO ₂ continuous emission monitoring systems	Y	
Performance Specification 5	Total reduced sulfur (TRS) continuous emission monitoring systems	Y	
Performance Specification 7	H ₂ S continuous emission monitoring systems	Y	
NSPS 40 CFR 60 Appendix F	Quality Assurance Procedures		
Procedure 1	QA requirements for gas continuous emission monitoring systems	Y	
BAAQMD Condition 1694			
Part A.1	Heat ratings, firing limits [Basis: Regulation 2-1-234.3]	Y	
Part A.2a	Fuel restrictions [Basis: Regulation 2, Rule 1]	Y	
Part A.2b	Visual monitoring during tube cleaning [Basis: Regulation 2-6-409.2]	Y	

IV. Source Specific Applicable Requirements

Table IV – A.31
Source-specific Applicable Requirements
S-438 – UNIT 110, H-1 FURNACE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part A.3a	TRS testing requirement [Basis: SO ₂ Bubble]	Y	
Part A.3b	TRS reporting requirements [Basis: SO ₂ Bubble]	Y	
Part A.4	SO ₂ emission limit [Basis: SO ₂ Bubble]	Y	
Part A.6	Records [Basis: Regulation 2, Rule 1; SO ₂ Bubble; Regulation 2-6-409.2]	Y	
Part E.1	S-438 abatement requirement [Basis: BACT, Cumulative Increase]	Y	
Part E.2	S-438 annual firing limit [Basis: Cumulative Increase]	Y	
Part E.3	S-438 PSA offgas fuel TRS limit [Basis: BACT, Cumulative Increase]	Y	
Part E.4	S-438 NO _x and CO emission limits [Basis: BACT, Cumulative Increase]	Y	
Part E.5	S-438 fuel gas TRS limit [Basis: BACT, Cumulative Increase]	Y	
Part E.6	S-438 Records [Basis: Recordkeeping]	Y	

- 1 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV – B
Source-specific Applicable Requirements
S-400 WET WEATHER WASTEWATER SUMP
S-401 DRY WEATHER WASTEWATER SUMP

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1440			
Part 4b	No detectable VOC from equipment [Basis: Cumulative Increase]	Y	
Part 5	Semiannual VOC monitoring and records [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-400, S-401	Y	

IV. Source Specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-324 API OIL/WASTEWATER SEPARATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Wastewater (Oil-Water) Separator	Y	
8-8-112	Exemption, wastewater critical OC concentration and/or temperature	Y	
8-8-113	Exemption, secondary wastewater treatment processes and storm water sewer systems	Y	
8-8-114	Exemption, bypassed oil-water separator or air flotation influent	Y	
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per seconds (300 gal/min), must be equipped with one of the following:	Y	
8-8-302.1	a solid, vapor-tight, full contact fixed cover which totally encloses the separator tank, chamber, or basin liquid contents, with all	Y	
NSPS 40 CFR 60 Subpart QQQ	Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems	Y	
60.692-3	Standards: Oil-water separators.	Y	
60.692-3 (a)	Each oil-water separator tank, slop oil tank, storage vessel, or other auxiliary equipment shall be equipped and operated with a fixed roof which meets the following specifications:	Y	
60.692-3 (a)(1)	The fixed roof shall completely cover the separator tank, slop oil tank, storage vessel or other auxiliary equipment.	Y	
60.692-3 (a)(2)	The vapor space under a fixed roof shall not be purged unless the vapor is directed to a control device.	Y	
60.692-3 (a)(3)	Roof access doors or openings shall be gasketed, latched, and kept closed during operation, except during inspection and maintenance.	Y	
60.692-3 (a)(4)	Roof seals, access doors, and other openings shall be checked by visual inspection initially and semiannually thereafter.	Y	
60.692-3 (a)(5)	When a broken seal or gasket or other problem is identified repairs shall be attempted as soon as practicable, but no later than 15 days later.	Y	
60.692-3 (b)	Oil-water separator tank or auxiliary equipment designed to treat more than 250 gpm of wastewater shall meet requirements in 60.692-3 (a) and operated with a closed vent system and control device.	Y	

IV. Source Specific Applicable Requirements

Table IV - C
Source-specific Applicable Requirements
S-324 API OIL/WASTEWATER SEPARATOR

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.692-3 (e)	Slop oil from an oil-water separator and oily wastewater from slop oil handling equipment shall be collected, stored, transported, recycled, reused, or disposed of in an enclosed system.	Y	
60.693-2	Alternative standards for oil-water separators.	Y	
60.694	Permission to use alternative means of emission limitation.	Y	
BAAQMD Condition 1440			
Part 1	No vapor space in separator [Basis: Cumulative Increase]	Y	
Part 4a	No detectable VOC from doors, hatches, covers or other openings [Basis: Cumulative Increase]	Y	
Part 5	Semiannual VOC monitoring and records [Basis: Cumulative Increase]	Y	
Part 6	Maximum wastewater throughput [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limit for source S-324	Y	

Table IV – D
Source-specific Applicable Requirements
S-1007 DISSOLVED AIR FLOTATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Wastewater (Oil-Water) Separator	Y	
8-8-307	Air Flotation Unit: any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gals/min unless is equipped with one of the following:	Y	
8-8-307.1	a solid, gasketed, fixed cover totally enclosing the vessel liquid contents, with all cover openings closed, except for inspection,	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-1007 DISSOLVED AIR FLOTATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	maintenance, or wastewater sampling. The cover may include an atmospheric vent or a pressure/vacuum valve. Also includes gap inspection frequency and limits.		
BAAQMD Condition 1440			
Part 4b	No detectable VOC from equipment [Basis: Cumulative Increase]	Y	
Part 5	Semiannual VOC monitoring and records [Basis: Cumulative Increase]	Y	
Part 6	Maximum wastewater throughput [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limit for S-1007	Y	

Table IV - E
Source-specific Applicable Requirements – Wastewater
PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS
S-381 AERATION TANK F-201
S-382 AERATION TANK F-202
S-383 CLARIFIER F-203
S-384 CLARIFIER F-204

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1440			
Part 4c	No detectable VOC from equipment [Basis: Cumulative Increase]	Y	
Part 5	Semiannual VOC monitoring and records [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit	See Section VI for annual throughput limits for sources S-381, S-382, S-383, S-384	Y	

IV. Source Specific Applicable Requirements

Table IV - E
Source-specific Applicable Requirements – Wastewater
PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS
S-381 AERATION TANK F-201
S-382 AERATION TANK F-202
S-383 CLARIFIER F-203
S-384 CLARIFIER F-204

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Section VI			

Table IV - F
Source-specific Applicable Requirements – Wastewater
PONDS/BIOTREATERS/SURFACE IMPOUNDMENTS
S-1008 PRIMARY STORMWATER BASIN
S-1009 MAIN STORMWATER BASIN

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Wastewater (Oil-Water) Separator	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records: record requirements for water which bypasses normal treatment and is diverted to S-1008, S-1009	Y	
BAAQMD Condition 1440			
Part 2	Minimize diversion of wastewater to S-1008, S-1009 [Basis: Cumulative Increase]	Y	
Part 3	Records of wastewater diversions to S-1008, S-1009 [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-1008, S-1009	Y	

IV. Source Specific Applicable Requirements

Table IV – G
Source-specific Applicable Requirements – Miscellaneous Wastewater Sources
Subject to Condition 1440

S-385 – WASTEWATER EFFLUENT MEDIA FILTER F-207

S-386 – PAC REGENERATION SLUDGE THICKENER F-211

S-387 – WET AIR REGENERATION SYSTEM P-202

S-390 – THICKENED SLUDGE STORAGE F-248

S-392 – REGENERATED PAC SLURRY STORAGE F-266

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 1440			
Part 4c	No detectable VOC from equipment [Basis: Cumulative Increase]	Y	
Part 5	Semiannual VOC monitoring and records [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-385, S-386, S-387, S-390, S-392	Y	

IV. Source Specific Applicable Requirements

Table IV - H
Source-specific Applicable Requirements
WASTEWATER JUNCTION BOXES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Wastewater (Oil-Water) Separator	Y	
8-8-308	Junction Box: equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in the covers and vent pipes if the total open area of the junction box does not exceed 12.6 square inches and all vent pipes are at least 3 feet in length.	Y	
NSPS 40 CFR 60 Subpart QQQ	Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems [APPLIES ONLY TO J-BOXES DOWNSTREAM OF S-400, S-401 SUMPS]	Y	
60.692-2 (b)(1)	Junction boxes shall be equipped with a cover and may have an open vent pipe which is at least 3 feet in length and does not exceed 4 inches in diameter.	Y	
60.692-2 (b)(2)	Junction box covers shall have a tight seal around the edge and shall be kept in place at all times, except during inspection and maintenance.	Y	
60.692-2 (e)	Refinery wastewater routed through new process drains and a new first common downstream junction box, shall not be routed through a downstream catch basin.	Y	

Table IV – I
Source-specific Applicable Requirements
WASTEWATER PROCESS SEWERS/SEWER LINES – S-324 OIL/WATER SEPARATOR ONLY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS 40 CFR 60 Subpart QQQ	Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems	Y	
60.692-2	Sewer lines shall not be open to the atmosphere and shall be covered	Y	

IV. Source Specific Applicable Requirements

Table IV – I
Source-specific Applicable Requirements
WASTEWATER PROCESS SEWERS/SEWER LINES – S-324 OIL/WATER SEPARATOR
ONLY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
(c)(1)	or enclosed in a manner with no visible gaps or cracks in joints, seals.		

Table IV - J
Source-specific Applicable Requirements
WASTEWATER GAUGING AND SAMPLING DEVICES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	Wastewater (Oil-Water) Separator	Y	
8-8-303	Gauging and Sampling Devices: Any compartment or access hatch shall have a vapor tight cover, seal, or lid that is closed, except for inspection, maintenance, or wastewater sampling.	Y	

Table IV - K
Source-specific Applicable Requirements
S-294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 7	Organic Compounds - Gasoline Dispensing Facilities (11/17/99)		
8-7-301	Phase I Requirements	N	
8-7-301.1	Requirement for CARB Phase I System	N	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	N	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines or CARB Executive Order	Y	

IV. Source Specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S-294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-301.6	Leak-Free, Vapor-Tight	N	
8-7-301.7	Poppetted Drybreaks	N	
8-7-301.8	No Coaxial Phase 1 Systems on New and Modified Tanks	N	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	N	
8-7-301.10	System Vapor Recovery Rate	N	
8-7-301.11	CARB-Certified Spill Box	N	
8-7-301.12	Drain Valve Permanently Plugged	N	
8-7-302	Phase II Requirements	N	
8-7-302.1	Requirement for CARB Certified Phase II System	N	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	N	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	N	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	N	
8-7-302.6	Insertion Interlocks	N	
8-7-302.7	Built-In Vapor Check Valve	N	
8-7-302.8	Minimum Liquid Removal Rate	N	
8-7-302.9	Coaxial Hose	N	
8-7-302.10	Galvanized Piping or Flexible Tubing	N	
8-7-302.11	ORVR Compatible	N	
8-7-302.12	Liquid Retainment Limit	N	
8-7-302.13	Spitting Limit	N	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	N	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	N	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirements	Y	
8-7-313	Requirements for New or Modified Phase II Installations	N	
8-7-315	Pressure Vacuum Valve Requirement, Underground Storage Tank	N	
8-7-401	Permit Requirements, New and Modified Installations		
8-7-406	Testing Requirements, New and Modified Installations	N	
8-7-501	Burden of Proof	N	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	N	

IV. Source Specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S-294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-503.1	Gasoline Dispensed Records	N	
8-7-503.2	Dispensing Facility Maintenance Records	N	
8-7-503.3	Dispensing Records Retention	N	
SIP Regulation 8, Rule 7	Organic Compounds - Gasoline Dispensing Facilities (6/1/94)		
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirement for CARB Certified Phase I System	Y	
8-7-301.2	Installation of Phase I System per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipe	Y	
8-7-301.4	Pressure Vacuum Relief Valve Requirement	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers Guidelines	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirement for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-304	Certification Requirements	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-310	New Tank Phase II Requirement	Y	
8-7-312	Removal of Gasoline	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-404	Certification of New Installation	Y	
8-7-405	Compliance Schedule, Loss of Exemption	Y	
8-7-501	Burden of Proof	Y	
BAAQMD Condition 7523	Gasoline throughput shall not exceed 400,000 gallons in any consecutive 12-month period. [Basis: Toxic Risk Policy]	N	
Throughput Limits,	See Section VI for throughput limits for sources S-294		Y

IV. Source Specific Applicable Requirements

Table IV - K
Source-specific Applicable Requirements
S-294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Permit Section VI			

Table IV - L
Source-specific Applicable Requirements
S-296 – C-1 FLARE
S-398 – MP-30 FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
District Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
BAAQMD Condition 18255			
Part 1	Requirement to visually inspect flares after releases [Basis: Regulation 2-1-234]	Y	

Table IV - M
Source-specific Applicable Requirements
S-300 – U-200 DELAYED COKER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until	Y	

IV. Source Specific Applicable Requirements

Table IV - M
Source-specific Applicable Requirements
S-300 – U-200 DELAYED COKER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	pressure is reduced to less than 1000 mm Hg:		
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Condition 476			
Part A.1-A.5	Definitions [Basis: Definitions]	Y	
Part B.1	Raw material throughput limits [Basis: Cumulative Increase]	Y	
Part C.1	Recordkeeping requirements [Basis: BACT, Cumulative Increase]	Y	
Part C.2.a	Reporting requirement [Basis: BACT, Cumulative Increase]	Y	
Part D.1	Verification of compliance with records [BACT, Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - N
Source-specific Applicable Requirements – Process Vessels
S-304 – U-229 MID-BARREL UNIONFINING UNIT
S-305 – U-230 GASOLINE UNIONFINING UNIT
S-306 – U-231 PLATFORMING UNIT
S-307 – U-240 UNICRACKING UNIT
S-308 – U-244 REFORMING UNIT
S-309 – U-248 UNISAR UNIT
S-318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT
S-319 – U-215 GASOLINE FRACTIONATING UNIT
S-322 – U-40 RAW MATERIALS RECEIVING
S-435 – REFORMATE SPLITTER
S-436 – DEISOPENTANIZER
S-437 – HYDROGEN PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Condition 6671			
Part 1	Abatement requirement for E-421 condenser vent at A-50 scrubber [Basis: Regulation 8-2-301]	Y	
Part 2	Efficiency requirement for A-50 scrubber raw material throughput	Y	

IV. Source Specific Applicable Requirements

Table IV - N
Source-specific Applicable Requirements – Process Vessels
S-304 – U-229 MID-BARREL UNIONFINING UNIT
S-305 – U-230 GASOLINE UNIONFINING UNIT
S-306 – U-231 PLATFORMING UNIT
S-307 – U-240 UNICRACKING UNIT
S-308 – U-244 REFORMING UNIT
S-309 – U-248 UNISAR UNIT
S-318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT
S-319 – U-215 GASOLINE FRACTIONATING UNIT
S-322 – U-40 RAW MATERIALS RECEIVING
S-435 – REFORMATE SPLITTER
S-436 – DEISOPENTANIZER
S-437 – HYDROGEN PLANT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	[Basis: Regulation 8-2-301]		
Part 3	Requirement to treat A-50 blowdown at wastewater treatment plant [Basis: Cumulative Increase]	Y	
Part 4	Daily A-50 monitoring requirement [Basis: Cumulative Increase]	Y	
Part 5	Monitoring record requirement [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for hourly, annual throughput limits for S-304, S-305, S-306, S-308, S-309, S-318, S-319, S-435, S-436, S-437	Y	

Table IV - O
Source-specific Applicable Requirements
S-350 – U-267 CRUDE DISTILLATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	Y	

IV. Source Specific Applicable Requirements

Table IV - O
Source-specific Applicable Requirements
S-350 – U-267 CRUDE DISTILLATION UNIT

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Condition 383			
Part 1	Sulfur content limit in crude [Basis: Cumulative Increase]	Y	
Part 2	Daily, average daily crude feed limits [Basis: Cumulative Increase]	Y	
Part 3a	Monthly recordkeeping requirements [Basis: Cumulative Increase]	Y	
Part 3b	Records of sulfur content of each crude source [Basis: Cumulative Increase]	Y	

Table IV - P
Source-specific Applicable Requirements
S-432 – U-215 DEISOBUTANIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	Y	
8-10-301.1	recovery to the fuel gas system	Y	

IV. Source Specific Applicable Requirements

Table IV - P
Source-specific Applicable Requirements
S-432 – U-215 DEISOBUTANIZER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Condition 6725			
Part 1	Flange, valve design requirements [Basis: Cumulative Increase]	Y	
Part 2	Vent collection requirement for relief valves [Basis: Cumulative Increase]	Y	
Part 3	Pump, compressor design requirements [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for hourly, annual throughput limits for S-432	Y	

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE
S-353 - COMBUSTION TURBINE
S-354 - COMBUSTION TURBINE
S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352
S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353
S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
------------------------	--	-----------------------------	-----------------------

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (11/15/00)		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.8	Monitors pursuant to Regulation 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-602	Area and Continuous Monitoring Requirements	N – note 1	
SIP Regulation 1	PROVISIONS NO LONGER IN CURRENT RULE General Provisions and Definitions (6/28/99)		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y – note 2	
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 2, Rule 1	Regulation 2, Rule 1 - Permits, General Requirements (5/2/01; SIP approved 1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions-measurement of emissions	N	
2-1-501	Monitors	Y	
SIP Regulation 2, Rule 1	PROVISIONS NO LONGER IN CURRENT RULE Permits, General Requirements (1/26/99 {adopted 11/01/89})		
2-1-403	Permit conditions-measurement of emissions	Y	
BAAQMD Manual of Procedures,	Continuous Emission Monitoring Policy and Procedures (1/20/82)	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Volume V			
BAAQMD Regulation 9, Rule 9	Inorganic Gaseous Pollutants - Nitrogen Oxides from Stationary Gas Turbines (9/21/94)		
9-9-113	Exemption - Inspection/Maintenance	Y	
9-9-114	Exemption - Startup/Shutdown	Y	
9-9-301	Emission Limits – General	Y	
9-9-301.3	Emission Limits	Y	
9-9-401	Efficiency Certification	Y	
9-9-501	Continuous Emission Monitoring (CEM)	Y	
9-9-600	Manual of Procedures		
9-9-601	NOx emissions: Manual of Procedures, Vol. IV, ST-13A or B	Y	
9-9-602	Oxygen emissions: Manual of Procedures, Vol. IV, ST-14	Y	
9-9-603	CEM: Manual of Procedures, Volume V	Y	
9-9-604	Determination of HHV and LHV	Y	
BAAQMD Regulation 9, Rule 10	Inorganic Gaseous Pollutants - Nitrogen Oxides and Carbon Monoxide from Boilers, Steam Generators, and Process Heaters in Petroleum Refineries (1/5/94)		
9-10-110.3	Exemption: Waste heat recovery boilers associated with gas turbines	Y	
NSPS 40 CFR 60 Subpart Db	Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units (3/13/00) [THIS REGULATION APPLIES ONLY TO DUCT BURNERS S-355, S-356, S-357]		
60.40b(a)	Applicability	Y	
60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
60.40b(f)	Modification for the sole purpose of combusting gases containing TRS is not a modification	Y	
60.40b(j)	Units subject to Subpart Db are not subject to Subpart D	Y	
60.41b	Definitions (i.e., <i>Very Low Sulfur Oil</i>)	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.44b(a)	NOx Standard	Y	
60.44b(a)(4)	NOx standard for duct burner used in combined cycle system	Y	
60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion.	Y	
60.44b(f)	NOx standard for refinery-produced byproduct with oil or natural gas combustion may be determined on a case-by-case basis.	Y	
60.44b(h)	NOx standard applicable at all times	Y	
60.44b(I)	24-hour rolling average	Y	
60.46b	Compliance/Performance test Methods for NOx	Y	
60.48b	Emission Monitoring for NOx	Y	
60.48b(h)	NOx CEM not required if subject to §60.44b(a)(4)	Y	
60.49b	Reporting and Recordkeeping	Y	
NSPS 40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries (10/2/90)		
60.100	Applicability	Y	
60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
60.104(a)(1)	fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
60.105	Monitoring of Emissions and Operations	Y	
60.105(a)(4)	monitoring requirement for H ₂ S (dry basis) in fuel gas prior to combustion	Y	
60.105(e)(3)	Excess SO ₂ emission definitions for 60.7(c)	Y	
60.106	Test methods and procedures	Y	
60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
NSPS 40 CFR 60 Subpart GG	Standards of Performance for Stationary Gas Turbines (1/27/82)		
60.330	Applicability	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.332(a)(2)	Alternate Standard, NOx (except when ice fog deemed a traffic hazard per 60.332(f))	Y	
60.332(d)	Compliance with 60.332(a)(2) required	Y	
60.332(f)	Exemption from 60.332(a)(2) when steam injection would result in ice fog which is deemed a traffic hazard	Y	
60.332(k)	Exemption: Natural gas turbines >10 MMBTU/hr when firing emergency fuel	Y	
60.333	Performance Standards, SO ₂	Y	
60.333 (b)	Fuel Sulfur Limit (in lieu of SO ₂ concentration emission limit – 150 ppmv @ 15% O ₂ - in 60.333(a))	Y	
60.334	Monitoring Requirements	Y	
60.334(a)	CEM Water-to-fuel monitoring	Y	
60.334 (b)	Fuel Sulfur and Nitrogen Content	Y	
60.334 (c)	Excess Emissions	Y	
60.335	Test Methods and Procedures	Y	
BAAQMD Condition 12122			
Part 1	Restriction to natural gas and refinery gas fuels [Basis: Cumulative Increase]	Y	
Part 2	Restriction on duct burner operation to times when associated turbine is also operated [Basis: BACT, Cumulative Increase]	Y	
Part 3	Abatement requirement for S-352 and S-355 at A-13 [Basis: BACT, Cumulative Increase]	Y	
Part 4	Abatement requirement for S-353 and S-356 at A-13 [Basis: BACT, Cumulative Increase]	Y	
Part 5	Abatement requirement for S-354 and S-357 at A-13 [Basis: BACT, Cumulative Increase]	Y	
Part 6	Duct burner annual firing limit [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 7	CO exhaust concentration limit [Basis: BACT, Cumulative Increase]	Y	
Part 8	POC exhaust concentration limit [Basis: BACT, Cumulative Increase]	Y	
Part 9a	NOx hourly, daily and annual emission limits [Basis: BACT, Cumulative Increase]	Y	
Part 9b	NOx CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 10a	CO annual emission limits [Basis: BACT, Cumulative Increase]	Y	
Part 10b	CO CEM requirement [Basis: BACT, Cumulative Increase]	Y	
Part 11	POC hourly and annual emission limits [Basis: BACT, Cumulative Increase]	Y	
Part 12	Refinery fuel gas testing requirement for total reduced sulfur [Basis: Cumulative Increase]	Y	
Part 13	Reporting requirement for refinery fuel gas total reduced sulfur measurements [Basis: Cumulative Increase]	Y	
Part 14	Non-cogeneration daily sulfur emission limit and recordkeeping requirement [Basis: Cumulative Increase, Facility SO2 Bubble]	Y	
Part 15	Annual POC source test [Basis" Regulation 2-6-409.2]	Y	
Part 16	Recordkeeping requirement [Basis: BACT, Cumulative Increase]	Y	
BAAQMD Condition 18629	PSD Approval to Construct / Modify issued 3/3/86, modified 5/26/89. The basis for each section is PSD.	Y	
Part III	Facilities Operation	Y	
Part IV	Malfunction	Y	
Part V	Right to Entry	Y	
Part V.A	entry to premises	Y	
Part V.B	access to records	Y	
Part V.C	right to inspection of equipment and operations	Y	
Part V.D	right to sample emissions	Y	
Part VI	Transfer of Ownership	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part VII	Severability	Y	
Part VIII	Other Applicable Regulations	Y	
Part IX	Special Conditions	Y	
Part IX.B	Air Pollution Control Equipment	Y	
Part IX.B.1	Requirement for steam injection	Y	
Part IX.B.2	Requirement for SCR	Y	
Part IX.B.3	Requirement for oxidizing catalyst	Y	
Part IX.D.1	restriction to refinery gas fuel	Y	
Part IX.D.2	466 MM BTU/hr firing rate limit for each of 3 turbine/duct burner sets	Y	
Part IX.D.3	1048 MM BTU/hr total firing rate limit	Y	
Part IX.D.4	fuel usage and related records	Y	
Part IX.E	Emission Limits for NOx	Y	
Part IX.F	Emission Limits for SO2	Y	
Part IX.G	Continuous Emission Monitoring	Y	
Part IX.G.1.a	Requirement for NOx CEM and fuel gas H2S sampling	Y	
Part IX.G.1.b	parametric monitoring of stack flowrates	Y	
Part IX.G.2	Requirement to maintain records (2 years)	Y	
Part IX.G.3	quarterly report of SO2 emissions and excess emissions	Y	
Part IX.G.3.a.(1)	total sulfur concentration in each fuel gas sample	Y	
Part IX.G.3.a.(2)	daily average sulfur content in fuel gas, daily average SO2 mass emission rate, total ton/yr of SO2	Y	
Part IX.G.3.b	excess SO2 emissions	Y	
Part IX.G.3.c	excess SO2 emissions during startups, shutdowns and malfunctions	Y	
Part IX.G.3.d	time and date of CEM failures	Y	
Part IX.G.3.e	affirmative statement of CEM operation when no failures occur	Y	
Part IX.G.3.f	definition of excess SO2 emissions	Y	

IV. Source Specific Applicable Requirements

Table IV - Q
Source-specific Applicable Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part IX.G.3.g	excess SO2 emissions indicated by CEM is a violation	Y	
Part IX.H	New Source Performance Standards (subparts A and GG)	Y	
Part X	Agency Notifications	Y	

- 1 This section of Regulation 1 is in the SIP, but is not federally enforceable in this case because the area monitoring requirement is for Regulation 9-2, which is not federally enforceable.
- 2 This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV - R
Source-specific Applicable Requirements

S-376 - TOOL ROOM COLD CLEANER

S-377 – MACHINE SHOP COLD CLEANER

S-378 – AUTO SHOP COLD CLEANER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (9/16/98)		
8-16-122	Limited Exemption, Permitted Cold Cleaner	N	
8-16-201	Definitions	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.4(a)	Covered Containers for Waste Solvent Awaiting Pick-up	Y	

IV. Source Specific Applicable Requirements

Table IV - R
Source-specific Applicable Requirements
S-376 - TOOL ROOM COLD CLEANER
S-377 – MACHINE SHOP COLD CLEANER
S-378 – AUTO SHOP COLD CLEANER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-303.4	Control Device (one of the following)	Y	
8-16-303.4.1	Freeboard Ratio ≥ 0.75	Y	
8-16-501	Solvent Records	N	
8-16-501.2	Facility-wide Annual Solvent Usage Records	N	
8-16-501.3	Annual Records of Type and Amount of Solvent Used for Wipe Cleaning	N	
8-16-501.5	Records Retained for Previous 24 Month Period	N	
SIP Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (6/15/94)		
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Quarterly Solvent Usage Records	Y – note 1	
BAAQMD Condition 16677			
Part 1	Net usage of citrus-based solvent at S-376, S-377 and S-378 shall not exceed 150 gallons each in any consecutive 12-month period. [Basis: Cumulative Increase]	Y	
Part 2	Criteria for using solvents other than citrus-based solvents. [Basis: Cumulative Increase and Toxic Risk Screen]	Y	
Part 3a, 3b, 3c	Recordkeeping requirements. [Basis: Cumulative Increase and Toxic Risk Screen]	Y	

IV. Source Specific Applicable Requirements

- 1 This section of Regulation 1 is in the SIP, but is not federally enforceable in this case because the area monitoring requirement is for Regulation 9-2, which is not federally enforceable.

Table IV - S
Source-specific Applicable Requirements
S-425 – MARINE LOADING BERTH M1
S-426 – MARINE LOADING BERTH M2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 44	Organic Compounds-Marine Vessel Loading Terminals (1/4/89)	Y	
8-44-110	Exemption: loading events	Y	
8-44-111	Exemption: marine vessel fueling	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 gram per cubic meter (2 lb per 1000 bbl) of organic liquid loaded, or	Y	
8-44-301.2	POC emissions reduced 95% by weight from uncontrolled conditions	Y	
8-44-302	Emission control equipment	Y	
8-44-303	Operating practice	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order	Y	
8-44-304.2	Loading ceases any time gas or liquid leaks are discovered	Y	
8-44-402	Safety/Emergency Operations	Y	
8-44-402.1	Rule does not require act/omission in violation of Coast Guard/other rules	Y	
8-44-402.2	Rule does not prevent act/omission for vessel safety or saving life at sea	Y	
8-44-501	Record keeping	Y	
8-44-501.1	Name and location	Y	
8-44-501.2	Responsible company	Y	
8-44-501.3	Dates and times	Y	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of proof	Y	
40 CFR 63	National Emission Standards for Hazardous Air Pollutants for Source Categories	Y	

IV. Source Specific Applicable Requirements

Table IV - S
Source-specific Applicable Requirements
S-425 – MARINE LOADING BERTH M1
S-426 – MARINE LOADING BERTH M2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Part 63 Subpart Y	National Emission Standards for Marine Tank Vessel Loading Operations	Y	
63.560(a)	Maximum Achievable Control Technology (MACT) applicability	Y	
63.560(a)(2)	MACT does not apply to existing sources with emissions < 10 or 25 tons	Y	
63.560(a)(3)	Record keeping in 63.567(j)(4) and emission estimation in 63.565(l) apply to existing sources < 10 and 25 tons	Y	
63.565(l)	Emission estimation procedures	Y	
63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years	Y	
BAAQMD Condition 4336			
Part 1	A-420 oxidizer temperature requirements [Basis: Cumulative Increase]	Y	
Part 2	monitoring requirements [Basis: Cumulative Increase]	Y	
Part 3	prohibition against loading without A-420 in service [Basis: Cumulative Increase]	Y	
Part 4	leak test requirement [Basis: Cumulative Increase]	Y	
Part 5	maximum loading pressure relative to relief valve setpoint [Basis: Cumulative Increase]	Y	
Part 6	throughput limit for regulated materials [Basis: Cumulative Increase]	Y	
Part 7	recordkeeping requirement [Basis: Cumulative Increase]		
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-425, S-426	Y	

Table IV - T
Source-specific Applicable Requirements
S-450 – GROUNDWATER EXTRACTION TRENCHES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
------------------------	--	-----------------------------	-----------------------

IV. Source Specific Applicable Requirements

Table IV - T
Source-specific Applicable Requirements
S-450 – GROUNDWATER EXTRACTION TRENCHES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 12245			
Part 1	Extracted water to be treated at wastewater treatment plant [Basis: Cumulative Increase]	Y	
Part 2	Covers required on all pump vaults and piping access boxes [Basis: Cumulative Increase]	Y	

Table IV – U
Source-specific Applicable Requirements
S-1001 - SULFUR PLANT UNIT 234
S-1002 - SULFUR PLANT UNIT 236
S-1003 - SULFUR PLANT UNIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.4	SO2 monitor at sulfur recovery plants emitting more than 100 lb/day SO2	Y	
1-520.8	Monitors required by Regulations 10, 12 and 2-1-403	Y	
1-521	Monitoring May Be Required	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	approval of plans and specifications	Y	
1-522.2	scheduling requirements	Y	
1-522.3	CEM performance testing	Y	
1-522.4	reporting of inoperative CEMs	Y	
1-522.5	CEM calibration requirements	Y	
1-522.6	CEM accuracy requirements	Y	
1-522.7	emission limit exceedance reporting requirements	Y	
1-522.8	monitoring data submittal requirements	Y	
1-522.9	recordkeeping requirements	Y	
1-522.10	Regulation 1-521 monitors shall meet requirements specified by District	Y	

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
S-1001 - SULFUR PLANT UNIT 234
S-1002 - SULFUR PLANT UNIT 236
S-1003 - SULFUR PLANT UNIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann #1 Limitation	Y	
6-305	Visible Particles	Y	
6-310.3	Particulate Weight Limitation	Y	
6-330	Sulfur Recovery Units (SO ₃ , H ₂ SO ₄ emission limitations)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-307	Emission Limitations for Sulfur Recovery Plants (which emit 100 lb/day SO ₂ or more)	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y/N	
9-1-313.2	operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams (sulfur recovery is required when a facility removes 16.5 ton/day or more of elemental sulfur).	N	
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (5/20/92)	Y	
9-1-313.2	operation of a sulfur removal and recovery system that removes and recovers: 95% of H ₂ S from refinery fuel gas, 95% of H ₂ S and ammonia from process water streams	Y – note 1	
BAAQMD Condition 19278			
Part 1	Annual source test requirement to verify H ₂ S and ammonia removal efficiency. [Basis: Regulation 9-1-313.2]	Y	
Part 2	Annual source test to verify SO ₃ and H ₂ SO ₄ exhaust concentrations. [Basis: Regulation 6-330]	Y	
Throughput Limits,	See Section VI for annual throughput limits for sources S-1001, S-1002, S-1003	Y	

IV. Source Specific Applicable Requirements

Table IV – U
Source-specific Applicable Requirements
S-1001 - SULFUR PLANT UNIT 234
S-1002 - SULFUR PLANT UNIT 236
S-1003 - SULFUR PLANT UNIT 238

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Permit Section VI			

- 1 This section of Regulation 1 is in the SIP, but is not federally enforceable in this case because the area monitoring requirement is for Regulation 9-2, which is not federally enforceable.

Table IV – V
Source-specific Applicable Requirements
S-370 – ISOMERIZATION UNIT 228

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 10	Organic Compound – Process Vessel Depressurization (7/20/83)		
8-10-301	Process Vessel Depressurizing. POC emissions shall be vented through a knock-out pot and then abated in one of the following ways, to as low a vessel pressure as possible, but at least until pressure is reduced to less than 1000 mm Hg:	Y	
8-10-301.1	recovery to the fuel gas system	Y	
8-10-301.2	combustion at a firebox or incinerator	Y	
8-10-301.3	combustion at a flare	Y	
8-10-301.4	containment such that emissions to atmosphere do not occur	Y	
8-10-401	Turnaround Records. The following records shall be kept for each process unit turnaround, and retained for at least 2 years and made available to the District on demand during inspections:	Y	
8-10-401.1	date of depressurization event	Y	
8-10-401.2	approximate vessel hydrocarbon concentration when emissions to atmosphere begin	Y	
8-10-401.3	approximate quantity of POC emissions to atmosphere	Y	
BAAQMD Condition 12121			

IV. Source Specific Applicable Requirements

Table IV – V
Source-specific Applicable Requirements
S-370 – ISOMERIZATION UNIT 228

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Daily feed rate limit [Basis: Cumulative Increase]	Y	
Part 2	Daily feed rate records [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for S-370	Y	

Table IV – W
Source-specific Applicable Requirements
S-380 – ACTIVATED CARBON SILO (P-204)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
District Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition 18251			
Part 1a	Abatement requirement [Basis: Regulation 2-1-234]	Y	
Part 2a	Differential pressure monitor requirement [Basis: Regulation 1-441]	Y	
Part 2b	Baghouse differential pressure monitoring requirement [Basis: Regulation 1-441]	Y	
Part 3	Differential pressure recordkeeping requirement [Basis: Regulation 1-441]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for S-370	Y	

IV. Source Specific Applicable Requirements

Table IV – X
Source-specific Applicable Requirements
S-389 – DIATOMACEOUS EARTH SILO (F-214)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
District Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann Number 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition 18251			
Part 1b	Abatement requirement [Basis: Regulation 2-1-234]	Y	
Part 2a	Differential pressure monitor requirement [Basis: Regulation 1-441]	Y	
Part 2b	Baghouse differential pressure monitoring requirement [Basis: Regulation 1-441]	Y	
Part 3	Differential pressure recordkeeping requirement [Basis: Regulation 1-441]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for S-370	Y	

Table IV- AA
Fugitive Sources: Applicable Requirements

IV. Source Specific Applicable Requirements

Process Unit	BAAQMD Reg. 8-18	BAAQMD Reg. 8-28	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAP Part 61, Subpart J	NESHAP Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAP Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAP Part 63, Subpart CC
Refinery-wide applicability	Y	Y	N	N	N	N	Report only	N	Y
Specific Unit applicability									
Unit 267 (S-350)	Y	Y	Y	N	Y	N	N	N	Y
Unit 228 (S-370)	Y	Y	Y	N	Y	N	N	N	Y
Unit 110 (S-438)	Y	Y	Y	N	Y	N	N	N	Y
Unit 100 (S-324)	Y	Y	N	Y	N	N	N	N	Y
Unit 233 (S-338)	Y	Y	NA	NA	NA	NA	NA	NA	NA

Table IV – AB
Applicable Requirements
COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8-18	Organic Compounds-Equipment Leaks (3/18/98)		
8-18-100	General/Applicability	N	
8-18-200	Definitions	N	
8-18-301	General Standard	N	
8-18-302	Valves	N	
8-18-303	Pumps and compressors	N	
8-18-304	Connections	N	
8-18-305	Pressure relief devices	N	
8-18-306	Non-repairable equipment	N	

IV. Source Specific Applicable Requirements

Table IV – AB
Applicable Requirements
COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-18-307	Liquid Leaks	N	
8-18-308	Alternate compliance	N	
8-18-401	Inspection	N	
8-18-402	Identification	N	
8-18-403	Visual inspection schedule	N	
8-18-404	Alternate inspection schedule	N	
8-18-405	Alternate inspection reduction plan	N	
8-18-406	Interim Compliance	N	
8-18-501	Portable Hydrocarbon Detector	N	
8-18-502	Records	N	
BAAQMD Regulation 8-28	Episodic Releases From Pressure Relief Devices at Petroleum Refineries and Chemical Plants (3/18/98)	N	
8-28-100	General/Applicability	N	
8-28-200	Definitions	N	
8-28-302	Pressure Relief Devices at New or Modified Sources at Petroleum Refineries	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
8-28-304	Repeat Releases - Pressure Relief Devices at Petroleum Refineries	N	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-403	Records	N	
8-28-404	Identification	N	
8-28-405	Prevention Measures Procedures	N	
SIP Regulation 8, Rule 28	Pressure Relief Valves at Petroleum Refineries and Chemical Plants (6/15/94)	Y	
8-28-301	Pressure Relief Valve	Y	
8-28-401	Reporting	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	

IV. Source Specific Applicable Requirements

Table IV – AB
Applicable Requirements
COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Part 60 Subpart GGG applies to the S-350 crude unit, S-370 isomerization unit, S-438 hydrogen plant			
NSPS Part 60 Subpart GGG; BAAQMD Regulation 10-59	Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (5/30/84); BAAQMD Standards of Performance for New Stationary Sources (4/19/89)		
40 CFR 60.590	Applicability	Y	
60.591	Definitions	Y	
60.592	Subject to provisions of Part 60, Subpart VV	Y	
60.593	Exceptions	Y	
BAAQMD Regulation 10-59	Incorporates by reference 40 CFR 60 Subpart GGG	Y	
NSPS Part 60 Subpart QQQ applies to the S-1007 dissolved air flotation unit			
NSPS Part 60 Subpart QQQ; BAAQMD Regulation 10-69	Standards of Performance for VOC Emission From Petroleum Refinery Wastewater Systems (7/18/95); BAAQMD Standards of Performance for New Stationary Sources (12/20/95)	Y	
40 CFR 60.690	Applicability	Y	
60.691	Definitions	Y	
60.692-5	Closed-vent systems and control devices Standards	Y	
60.692-6	Delay of Repair Standards	Y	
60.695	Monitoring of closed-vent systems with bypass lines	Y	
60.696	Performance test methods and procedures and compliance provisions	Y	
60.697	Recordkeeping	Y	
60.698	Reporting	Y	
BAAQMD Regulation 10-69	Incorporates by reference 40 CFR 60 Subpart QQQ	Y	

IV. Source Specific Applicable Requirements

Table IV – AB
Applicable Requirements
COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
NSPS Part 60 Subpart VV applies to the S-350 crude unit, S-370 isomerization unit, S-438 hydrogen plant			
NSPS Part 60 Subpart VV; BAAQMD Regulation 10-52	Standards of Performance for Equipment Leaks (Fugitive Emission Sources) (8/18/95); BAAQMD Standards of Performance for New Stationary Sources (12/20/95)	Y	
60.480	Applicability	Y	
60.481	Definitions	Y	
60.482-1	General Standards	Y	
60.482-2	Pump Standards:	Y	
60.482-2(a)(1)	Monthly monitoring of each pump, except for 60.482-1(c), 60.482-2(d), (e), or (f)	Y	
60.482-2(a)(2)	Weekly visual inspection of each pump, except for (e), (f), or (g)	Y	
60.482-2(b)	Air measurement >10,000 ppm or dripping liquid indicates leak	Y	
60.482-2(d)	Requirements for Dual-Mechanical seal pump	Y	
60.482-2(e)	No detectable emission designation: <500 ppm	Y	
60.482-2(f)	Requirements for Closed Vent Systems	Y	
60.482-8	Pumps in heavy liquid service	Y	
60.482-9(b)	Repair may be delayed for isolated equipment	Y	
60.482-9(d)(1)	Only dual-mechanical seal pumps qualify for delay of repair	Y	
60.482-9(d)(2)	Pump leaks must be repaired within 6 months	Y	
60.482-3	Compressor Standards	Y	
60.482-4	Requirements for Pressure Relief Devices in gas/vapor service	Y	
60.482-5	Requirements for Sampling connecting systems	Y	
60.482-6	Requirements for Open-ended valves or lines	Y	
60.482-7	Valve Standards:	Y	

IV. Source Specific Applicable Requirements

Table IV – AB
Applicable Requirements
COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.482-7(a)-(c)	Monitor monthly unless 2 successive months <10,000 ppm, then monitor first month of each quarter. If leak >10,000 ppm is detected, resume monthly monitoring	Y	
60.482-7(e)	Methods for first attempts or minimizing valve leaks	Y	
60.482-7(f)	Designated no-emissions (<500 ppm) valves with no external actuating mechanisms in contact with process fluid, may revert to annual monitoring, or that requested by the Administrator	Y	
60.482-8	Valves in heavy liquid service	Y	
60.482-9(b)	Repair may be delayed for isolated equipment	Y	
60.482-9(c)	Delay of repair for valves is only allowed under certain circumstances	Y	
60.482-8	Pressure Relief Devices in liquid service and Flanges and other Connectors Standards	Y	
60.482-10	Requirements for Closed-vent systems and control devices	Y	
60.483-1, 60.483-2, and BAAQMD 8-18-404.1	If a process unit has 5 consecutive quarters with <2% of valves leaking at >10,000 ppm, then any individual valve which measures <100 ppm for 5 consecutive quarters may be monitored annually	Y	
60.485	Test Methods and Procedures	Y	
60.486	Record keeping	Y	
60.487	Reporting	Y	
BAAQMD Regulation 10-52	Incorporates by reference 40 CFR 60 Subpart VV	Y	
NESHAP Part 63 Subpart CC	National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries	Y	
63.640(a)	Applicability	Y	
63.640(p)	Overlap of subpart CC with other regulations for equipment leaks.	Y	
63.641	Definitions	Y	
63.642(e)	Keep records for 5 years	Y	
63.648(a)	Equipment leak standards. Comply with 40 CFR 60, Subpart VV	Y	
63.648(b)	Use of monitoring data from prior to 8/18/95 to qualify for less stringent monitoring frequency	Y	
63.648(e)	Equipment leak standards – reciprocating pumps in heavy liquid service	Y	
63.648(f)	Equipment leak standards – reciprocating pumps in light liquid service	Y	
63.648(g)	Equipment leak standards – compressors in hydrogen service	Y	

IV. Source Specific Applicable Requirements

Table IV – AB
Applicable Requirements
COMPONENTS (FACILITY-WIDE EXCEPT AS NOTED)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.648(h)	Keep records for 5 years	Y	
63.648(i)	Equipment leak standards – reciprocating compressors	Y	
63.654(d)	Record keeping and reporting	Y	

Table IV - BA
Source-specific Applicable Requirements
New Low Vapor Pressure Permitted Tanks
S-238 (TANK 211), S-388 (TANK 276/205), S-433 (MOSC)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Exempt	Y	
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb	Y	
40 CFR 63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 40 CFR 63.640(n)(1) NSPS subpart Kb	Y	
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR RECORDKEEPING ONLY	Y	
40 CFR 60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 40 CFR 60.116b(a) Keep for 2 years	Y	
40 CFR 60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 40 CFR 60.116b(b) Required Keep record readily accessible for the life of the tank	Y	
40 CFR 60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks. 40 CFR 60.116b(c) identification & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, OR capacity ≥ 40,000 gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service	Y	

IV. Source Specific Applicable Requirements

Table IV - BA
Source-specific Applicable Requirements
New Low Vapor Pressure Permitted Tanks
S-238 (TANK 211), S-388 (TANK 276/205), S-433 (MOSC)

40 CFR 60.116b(d)	Periodic Reports: Miscellaneous additional info to report:	40 CFR 60.116b(d) TVP exceedances for a tank > 20,000 gal. that is normally below the TVP cutoff	Y	
40 CFR 60.116b(e)	True vapor pressure (TVP) determination for applicability:	40 CFR 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
40 CFR 60.116b(f)	Special requirements for tanks storing waste mixtures:	40 CFR 60.116b(f) TVP determination every 6 months if: TVP < control cutoff & TVP > monitoring cutoff *	Y	
40 CFR 60.116b(g)	Periodic Reports: Miscellaneous reporting exemptions:	40 CFR 60.116b(g) reporting of TVP exceedances is not required if tank is routed to a compliant control device	Y	
	Applicability determination: Miscellaneous recordkeeping exemptions:	40 CFR 60.116b(g) keeping record of TVP is not required if tank is routed to a compliant control device	Y	
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS			
40 CFR 60.7(a)	Initial Notification: Is initial notification of the source's existence required?	40 CFR 60.7(a)(1) notification within 30 days after begin construction	Y	
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification?	40 CFR 60.7(a)(4) notification 60 days or as soon as practicable before the change	Y	
40 CFR 60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	40 CFR 60.7(f) Keep all reports & notifications for 2 years	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	40 CFR 60.7(f) required	Y	
BAAQMD Condition 1860	APPLICABLE TO S-388			
Part 1	No detectable VOC emissions [Basis: Cumulative Increase]		Y	

IV. Source Specific Applicable Requirements

Table IV - BA
Source-specific Applicable Requirements
New Low Vapor Pressure Permitted Tanks
S-238 (TANK 211), S-388 (TANK 276/205), S-433 (MOSC)

Part 2	Requirement to vent to fuel gas recovery system [Basis: Cumulative Increase]	Y	
Part 3	Requirement to include S-388 in fugitive inspection program to verify compliance with Part 1 [Basis: Cumulative Increase]	Y	
BAAQMD Condition 7353	APPLICABLE TO S-433		
Part 1	Requirement to vent tank to fuel gas system [Basis: Cumulative Increase]	Y	
Part 2	Valve, pump design requirements [Basis: Cumulative Increase]	Y	
Part 3	Limitation on material stored [Basis: Cumulative Increase]	Y	
Part 4	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 5	Weekly throughput records [Basis: Recordkeeping]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-117, S-118, S-193, S-194, S-196, S-238	Y	

Table IV – BB
Source-specific Applicable Requirements
Low Vapor Pressure Permitted Tanks
S-117 (TANK 162), S-118 (TANK 163), S-178 (TANK 288), S-193 (TANK 305), S-194 (TANK 306), S-195 (TANK 501), S-196 (TANK 502), S-261 (TANK 1010), S-286 (TANK F3), S-293 (TANK F805)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Exempt		

IV. Source Specific Applicable Requirements

Table IV – BB
Source-specific Applicable Requirements
Low Vapor Pressure Permitted Tanks

S-117 (TANK 162), S-118 (TANK 163), S-178 (TANK 288), S-193 (TANK 305), S-194 (TANK 306), S-195 (TANK 501), S-196 (TANK 502), S-261 (TANK 1010), S-286 (TANK F3), S-293 (TANK F805)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY	Y	
40 CFR 63.642(e)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise.	40 CFR 63.642(e) & 63.654(i)(4) Keep all other records 5 years, Retrieval within 24 hr	Y
	General recordkeeping requirements: Keep all reports and notification for the specified period of time.	40 CFR 63.642(e) & 63.654(i)(4) Required	Y
40 CFR 63.646(h)	Initial Notification: Is initial notification of the source's existence required?	40 CFR 63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y
40 CFR 63.646(i)	Implementation Plan	40 CFR 63.646(i) & 63.652(b) Not required *	Y
40 CFR 63.654(f)	Notification of Compliance Status report:	40 CFR 63.654(f) Later of next Periodic Report after compliance or January 15, 1999 *	Y
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group 1 or Group 2)?	40 CFR 63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y
40 CFR 63.654(h)	Report applicability for varying-use tanks?	40 CFR 63.654(h)(6)(ii) w/the initial NOC Status report	Y
	Other (initial) Reports: Report applicability for varying-use tanks?	40 CFR 63.654(h)(6)(ii) Required with the initial Notification of Compliance Status report	Y
40 CFR 63.654(i)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise.	40 CFR 63.654(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank	Y
	Applicability records: Records of dimensions & capacity required for nonexempt tanks?	40 CFR 63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) Required Keep record readily accessible for service life of the tank *	Y

IV. Source Specific Applicable Requirements

Table IV – BB
Source-specific Applicable Requirements
Low Vapor Pressure Permitted Tanks

S-117 (TANK 162), S-118 (TANK 163), S-178 (TANK 288), S-193 (TANK 305), S-194 (TANK 306), S-195 (TANK 501), S-196 (TANK 502), S-261 (TANK 1010), S-286 (TANK F3), S-293 (TANK F805)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Applicability records: 40 CFR 63.654(i)(1)(iv) Additional recordkeeping requirements for certain tanks. Determination of HAP content Keep record readily accessible for service life of the tank	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-178, S-195, S-196, S-261	Y	

Table IV – BC
Source-specific Applicable Requirements
MACT (Small) EFRT
S-121 (TANK 166)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
8-5-111	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed AS SOON AS POSSIBLE? 8-5-111 Yes, but only allowed for stock change, tank cleaning, or repairs, & requires written notice	Y	
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 8-5-111.1 Not required, but 3-day notice is required prior to removing tank from service	Y	
8-5-112	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 8-5-112 YES ** 7-day time limit	Y	
	Notification of Inspections: Are notifications of 8-5-112.4 7-day notice required prior to	Y	

IV. Source Specific Applicable Requirements

Table IV – BC
Source-specific Applicable Requirements
MACT (Small) EFRT
S-121 (TANK 166)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	inspections to demonstrate initial compliance required, For EFR seal gap measurements: secondary seal replacement; no other notifications specified pertaining to seals		
8-5-311	EFR Rim Seals: 8-5-311.1, 321 vapor-mounted primary seal: Not Allowed 8-5-321.4, 320.1 liquid-mounted primary seal: OK with rim- mounted secondary 8-5-321.3, 320.1 mechanical-shoe primary seal: OK with rim- mounted secondary *	Y	
8-5-320	EFR deck openings other than for vents to project into liquid? 8-5-320.2.1, 4.1 & 5.1 REQUIRED	Y	
	EFR vents to be gasketed? 8-5-320.2.2 REQUIRED	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 8-5-320.2.2 & 4.2 maximum gap = 1/8 in. (& drains not exempt)	Y	
	EFR well covers to be gasketed? 8-5-320.2.2 & 4.2 REQUIRED	Y	
	EFR rim space vents to remain closed except when the pressure setting is exceeded? 8-5-320.3 REQUIRED *	Y	
	EFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 8-5-320.3 REQUIRED *	Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper? 8-5-320.5.2 REQUIRED *	Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve? 8-5-320.5.2 REQUIRED *	Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening? 8-5-320.6 REQUIRED	Y	
8-5-321	DETERMINATION OF EFR RIM-SEAL GAP AREAS: 8-5-321 & 322 Sum the gap areas & divide by the diameter of the tank? different procedure, limiting the % of circumference over which the gap can be exceeded	Y	
	UNSAFE CONDITIONS: 8-5-321 & 322	Y	

IV. Source Specific Applicable Requirements

Table IV – BC
Source-specific Applicable Requirements
MACT (Small) EFRT
S-121 (TANK 166)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Delay of EFR seal gap measurements allowed for unsafe conditions? not addressed If unable to make safe to measure, must the EFRT be emptied? 8-5-321 & 322 not addressed		
	Shall there be no holes, tears, or openings in the EFR seals? 8-5-321.1 & 322.1 YES	Y	
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 8-5-321.3 YES	Y	
	EFR Primary Seal Gap Inspection Criteria: 8-5-321.3 & 321.4 maximum area: * maximum gap width: 0.5 - 2.5 in. *	Y	
8-5-322	EFR Secondary Seal Gap Inspection Criteria: 8-5-322 maximum area: ≤ 5% with gap > 0.125 in.* maximum gap width: 0.5 in.	Y	
8-5-328	Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 8-5-328 & 329 Exempt per 111, but 328 & 329 impose restrictions on tank cleaning & on activities commenced on excess ozone days	Y	
8-5-401	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, 8-5-401 For the EFR Primary Seal: Every 5 years *	Y	
8-5-402	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, 8-5-402 For the EFR Secondary Seal: Annually *	Y	
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 8-5-402 At the same schedule as the secondary seal	Y	
8-5-404	Seal Gap Measurements: 8-5-404 For new EFRTs: Submit certification of seal gap measurements upon installation	Y	
	Notification of Compliance Status report: 8-5-404 Certification to be submitted	Y	

IV. Source Specific Applicable Requirements

Table IV – BC
Source-specific Applicable Requirements
MACT (Small) EFRT
S-121 (TANK 166)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	upon installation for floating-roof rim seals		
	EFRT report to include: 8-5-404 Seal gap measurements	Y	
	Periodic Reports: Miscellaneous additional info to report: 8-5-404.3 Annual certification of tank degassing equipment	Y	
8-5-405	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 8-5-405 REQUIRED (At same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 8-5-405 REQUIRED (At same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report of EFR inspection failures to include: 8-5-405 Date of inspection, actual seal gap data, & determination of compliance	Y	
8-5-501	Applicability records: Additional recordkeeping requirements for certain tanks. 8-5-501 Type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 8-5-602 or 604 Based on maximum (instantaneous) tank storage temperature	Y	
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR RECORDKEEPING ONLY		
40 CFR 63.642(e)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 40 CFR 63.642(e) & 63.654(i)(4) Keep all other records 5 years, retrievable within 24 hr	Y	

IV. Source Specific Applicable Requirements

Table IV – BC
Source-specific Applicable Requirements
MACT (Small) EFRT
S-121 (TANK 166)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 40 CFR 63.642(e) & 63.654(i)(4) Required	Y	
40 CFR 63.646(h)	Initial Notification: Is initial notification of the source's existence required? 40 CFR 63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y	
40 CFR 63.646(i)	Implementation Plan: 40 CFR 63.646(i) & 63.652(b) Not required *	Y	
40 CFR 63.654(f)	Notification of Compliance Status report: 40 CFR 63.654(f) Later of next Periodic Report after compliance or January 15, 1999 *	Y	
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)? 40 CFR 63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y	
40 CFR 63.654(h)	Report applicability for varying-use tanks? 40 CFR 63.654(h)(6)(ii) w/the initial NOC Status report	Y	
	Other (initial) Reports: Report applicability for varying-use tanks? 40 CFR 63.654(h)(6)(ii) Required with the initial Notification of Compliance Status report	Y	
40 CFR 63.654(i)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 40 CFR 63.654(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank	Y	
	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 40 CFR 63.654(i)(1) 63.646(a) & 63.119(a)(3) 63.123(a) Required Keep record readily accessible for service life of the tank *	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks. 40 CFR 63.654(i)(1)(iv) determination of HAP content Keep record readily accessible for service life of the tank	Y	
Throughput Limits, Permit	See Section VI for annual throughput limits for sources S-121 Y	Y	

IV. Source Specific Applicable Requirements

Table IV – BC
Source-specific Applicable Requirements
MACT (Small) EFRT
S-121 (TANK 166)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Section VI			

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR
S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
8-5-111	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed AS SOON AS POSSIBLE? 8-5-111 Yes, but only allowed for stock change, tank cleaning, or repairs, & requires written notice	Y	
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 8-5-111.1 Not required, but 3-day notice is required prior to removing tank from service	Y	
8-5-112	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 8-5-112 YES ** 7-day time limit	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements: 8-5-112.4 7-day notice required prior to secondary seal replacement; no other notifications specified pertaining to seals	Y	
8-5-311	EFR Rim Seals: vapor-mounted primary seal: 8-5-311.1, 321 Not Allowed 8-5-321.4, 320.1 OK with rim- mounted secondary liquid-mounted primary seal:	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	8-5-321.3, 320.1 OK with rim-mounted secondary mechanical-shoe primary seal: *		
8-5-320	EFR deck openings other than for vents to project into liquid? 8-5-320.2.1, 4.1 & 5.1 REQUIRED	Y	
	EFR vents to be gasketed? 8-5-320.2.2 REQUIRED	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 8-5-320.2.2 & 4.2 maximum gap = 1/8 in. (& drains not exempt)	Y	
	EFR well covers to be gasketed? 8-5-320.2.2 & 4.2 REQUIRED	Y	
	EFR rim space vents to remain closed except when the pressure setting is exceeded? 8-5-320.3 REQUIRED *	Y	
	EFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 8-5-320.3 REQUIRED *	Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper? 8-5-320.5.2 REQUIRED *	Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve? 8-5-320.5.2 REQUIRED *	Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening? 8-5-320.6 REQUIRED	Y	
8-5-321	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 8-5-321 & 322 different procedure, limiting the % of circumference over which the gap can be exceeded	Y	
	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? 8-5-321 & 322 not addressed		
	If unable to make safe to measure, must the EFRT be emptied? 8-5-321 & 322 not addressed	Y	
	Shall there be no holes, tears, or openings in the EFR seals? 8-5-321.1 & 322.1 YES	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 8-5-321.3 YES	Y	
	EFR Primary Seal Gap Inspection Criteria: maximum area: maximum gap width: 8-5-321.3 & 321.4 * 0.5 - 2.5 in. *	Y	
8-5-322	EFR Secondary Seal Gap Inspection Criteria: maximum area: maximum gap width: 8-5-322 ≤ 5% with gap > 0.02 in.* 0.06 in.	Y	
8-5-328	Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 8-5-328 & 329 Exempt per 111, but 328 & 329 impose restrictions on tank cleaning & on activities commenced on excess ozone days	Y	
8-5-401	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 8-5-401 Every 5 years *	Y	
8-5-402	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 8-5-402 Annually *	Y	
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 8-5-402 At the same schedule as the secondary seal	Y	
8-5-404	Seal Gap Measurements: For new EFRTs: 8-5-404 Submit certification of seal gap measurements upon installation	Y	
	Notification of Compliance Status report: 8-5-404 Certification to be submitted upon installation for floating-roof rim seals	Y	
	EFRT report to include: 8-5-404 Seal gap measurements	Y	
	Periodic Reports: Miscellaneous additional info to report: 8-5-404.3 Annual certification of tank degassing equipment	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-405	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 8-5-405 REQUIRED (At same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 8-5-405 REQUIRED (At same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report of EFR inspection failures to include: 8-5-405 date of inspection, actual seal gap data, & determination of compliance	Y	
8-5-501	Applicability records: Additional recordkeeping requirements for certain tanks. 8-5-501 type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 8-5-602 or 604 based on maximum (instantaneous) tank storage temperature	Y	
Refinery MACT	NESHAP for Petroleum Refineries		
	REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
40 CFR 63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 40 CFR 63.640(n)(1) NSPS subpart Kb	Y	
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal? 40 CFR 63.640(n)(8)(i) YES	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap 40 CFR 63.640(n)(8)(ii) YES – up to 30 days, or empty the	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	measurements due to unsafe conditions? tank within 45 days		
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 40 CFR 63.640(n)(8)(iii) YES	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report? 40 CFR 63.640(n)(8)(iv) YES	Y	
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule? 40 CFR 63.640(n)(8)(v) YES	Y	
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)? 40 CFR 63.640(n)(8)(vi) YES	Y	
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
40 CFR 60.112b(a)	EFR Rim Seals: 40 CFR 60.112b(a)(2)(i) Not Allowed vapor-mounted primary seal: liquid-mounted primary seal: OK with rim-mounted secondary mechanical-shoe primary seal: OK with rim-mounted secondary	Y	
	Must vapor-mounted rim seals be continuous on EFRs? 40 CFR 60.112b(a)(2)(i)(B) YES	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 40 CFR 60.112b(a)(2)(ii) REQUIRED *	Y	
	EFR well covers to be gasketed? 40 CFR 60.112b(a)(2)(ii) REQUIRED	Y	
	EFR vents to be gasketed? 40 CFR 60.112b(a)(2)(ii) REQUIRED	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR deck openings other than for vents to project into liquid? 40 CFR 60.112b(a)(2)(ii) REQUIRED	Y	
	EFR rim space vents to remain closed except when the pressure setting is exceeded? 40 CFR 60.112b(a)(2)(ii) REQUIRED	Y	
	EFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 40 CFR 60.112b(a)(2)(ii) REQUIRED	Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening? 40 CFR 60.112b(a)(2)(ii) REQUIRED	Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper? 40 CFR 60.112b(a)(2)(ii) guidepole requirements are specified in FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y	
	EFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 40 CFR 60.112b(a)(2)(ii) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve? 40 CFR 60.112b(a)(2)(ii) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y	
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed AS SOON AS POSSIBLE? 40 CFR 60.112b(a)(2)(iii) YES	Y	
	Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 40 CFR 60.112b(a)(2)(iii) EXEMPT	Y	
40 CFR 60.113b(b)	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? 40 CFR 60.113b(b)(1) not addressed *		
	If unable to make safe to measure, must the EFRT be emptied? 40 CFR 60.113b(b)(1) not addressed *	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 d? 40 CFR 60.113b(b)(1) not addressed *	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements: 40 CFR 60.113b(b)(1) & (5) Required-Notifications & reports per Ongoing Reports	Y	
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 40 CFR 60.113b(b)(1)(i) every 5 years	Y	
	Seal Gap Measurements: For new EFRTs: 40 CFR 60.113b(b)(1)(i) & (ii) measure gaps of both seals within 60 days after initial fill	Y	
	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 40 CFR 60.113b(b)(1)(ii) annually	Y	
	Seal Gap Measurements: For EFRTs returned to affected service after 1 yr or more of exempt service: 40 CFR 60.113b(b)(1)(iii) measure gaps of both seals within 60 days	Y	
	MEASUREMENT COND'S: Are EFR seal gap measurements to be made with the roof floating? 40 CFR 60.113b(b)(2)(i) YES	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Presence of a gap determined by inserting a 1/8 in. probe? 40 CFR 60.113b(b)(2)(ii) YES	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Use probes of various widths to determine the gap area? 40 CFR 60.113b(b)(2)(iii) YES	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 40 CFR 60.113b(b)(3) YES	Y	
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections 40 CFR 60.113b(b)(4) Make repairs within 45 days	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	of EFRs: 40 CFR 60.113b(b)(4) If unable to repair, empty the EFRT & remove from service? YES, within 45 days		
	EFR Primary Seal Gap Inspection Criteria: maximum area: 40 CFR 60.113b(b)(4)(i) 10 in² per foot of vessel diameter maximum gap width: 1.5 in.	Y	
	Shall there be no holes, tears, or openings in the EFR seals? 40 CFR 60.113b(b)(4)(i) & (ii) YES	Y	
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 40 CFR 60.113b(b)(4)(i)(A) YES	Y	
	EFR Secondary Seal Gap Inspection Criteria: maximum area: 40 CFR 60.113b(b)(4)(ii)(B) 1 in² per foot of vessel diameter maximum gap width: 0.5 in.	Y	
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 40 CFR 60.113b(b)(4)(ii)(B) not addressed *	Y	
	EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 40 CFR 60.113b(b)(4)(iii) 1 extension of 30 days, if needed *	Y	
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need? 40 CFR 60.113b(b)(4)(iii) Required *	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR: 40 CFR 60.113b(b)(4)(iii) Document the reason for the extension *	Y	
	Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 40 CFR 60.113b(b)(5) REQUIRED	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 40 CFR 60.113b(b)(6) Each time the tank is emptied & degassed	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: 40 CFR 60.113b(b)(6) Internal inspection not required for initial compliance	Y	
	EFRT REPAIRS: Repair of defects if the tank is empty? 40 CFR 60.113b(b)(6)(i) prior to refilling	Y	
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 40 CFR 60.113b(b)(6)(ii) REQUIRED	Y	
40 CFR 60.115b	Recordkeeping for inspections: Keep inspection reports as specified. 40 CFR 60.115b Keep for 2 years	Y	
40 CFR 60.115b(b)	EFRT report to include: 40 CFR 60.115b(b)(1) description of control equipment	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 40 CFR 60.115b(b)(2) Required within 60 days of inspection *	Y	
	Records of EFR inspection reports: 40 CFR 60.115b(b)(3) EFR seal gap measurements	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 40 CFR 60.115b(b)(4) Required within 30 days of inspection *	Y	
	Periodic Reports: Report of EFR inspection failures to include: 40 CFR 60.115b(b)(4) date of inspection, identification of tank, description of failure, & date of repair or emptying	Y	
40 CFR 60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 40 CFR 60.116b(a) Keep for 2 years	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 40 CFR 60.116b(b) Required Keep record readily accessible for the life of the tank	Y	
40 CFR 60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks. 40 CFR 60.116b(c) identification & TVP of the stored product, if capacity ≥ 20,000 gallons and TVP ≥ 2.2, OR capacity ≥ 40,000 gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service	Y	
40 CFR 60.116b(e)	True vapor pressure (TVP) determination for applicability: 40 CFR 60.116b(e) Maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS		
40 CFR 60.7(a)	Initial Notification: Is initial notification of the source's existence required? 40 CFR 60.7(a)(1) Notification within 30 days after begin construction	Y	
	Report (document) having initially achieved compliance? 40 CFR 60.7(a)(3) 60.115b(a)(1) & (b)(1) Within 15 days after initial fill	Y	
	Notification of Compliance Status report: 40 CFR 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] Notification within 15 days after startup	Y	
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 40 CFR 60.7(a)(4) Notification 60 days or as soon as practicable before the change	Y	
40 CFR 60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 40 CFR 60.7(f) Keep all reports & notifications for 2 years	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 40 CFR 60.7(f) Required	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.14(g)	Achieve compliance for: New Tanks (or tanks that become affected as a result of a change or modification)? 40 CFR 60.14(g) Up to 180 days after modifications (otherwise prior to fill)	Y	
BAAQMD Condition 12124	APPLICABLE TO S-439	Y	
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12125	APPLICABLE TO S-440	Y	
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12127	APPLICABLE TO S-442	Y	
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12129	APPLICABLE TO S-444	Y	

IV. Source Specific Applicable Requirements

Table IV – BD
Source-specific Applicable Requirements
NSPS Kb Zero-gap EFR

S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243), S-451 (TANK 695)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
BAAQMD Condition 19476			
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Tank design requirements [Basis: BACT, Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-101, S-102, S-106	Y	

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
8-5-111	IFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled 8-5-111 Yes, but only allowed for stock change, tank cleaning, or repairs, & requires written notice	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	or degassed AS SOON AS POSSIBLE?		
	Notification of Inspections: Is 30-day notice required for internal inspections of IFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 8-5-111.1 not required, but 3-day notice is required prior to removing tank from service	Y	
8-5-311	IFR Rim Seals: 8-5-311.2, 320.1 * vapor-mounted primary seal: OK with rim-mounted secondary liquid-mounted primary seal: OK alone mechanical-shoe primary seal: OK alone	Y	
8-5-320	IFR deck openings other than for vents to project into liquid? 8-5-320.2.1, 4.1 & 5.1 REQUIRED	Y	
	IFR vents to be gasketed? 8-5-320.2.2 REQUIRED	Y	
	IFR well covers to be gasketed? 8-5-320.2.2 & 4.2 REQUIRED	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 320.2.2, 2.3 & 4.2 maximum gap = 1/8 in. (& drains not exempt) if inaccessible, no gaps are to be visible from the fixed roof manway	Y	
	IFR rim space vents to remain closed except when the pressure setting is exceeded? 8-5-320.3 REQUIRED *	Y	
	IFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 8-5-320.3 REQUIRED *	Y	
	IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover? 8-5-320.4.2 maximum gap = 1/8 in.	Y	
	IFRT slotted guidepoles to have a deck cover gasket and pole wiper, and either an internal float or a pole sleeve? 8-5-320.5.2 Float/Sleeve Not Required	Y	
8-5-321	Are there to be no IFR rim seal gaps that are visible from the tank top? 8-5-321 & 322 if installed after 2/1/93, requires	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	the same gap criteria as for EFRs *		
	Shall there be no holes, tears, or openings in the IFR seals? 8-5-321.1 & 322.1 YES	Y	
	Is the metallic shoe of an IFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 8-5-321.3 IFR shoe to extend 18 in. above the liquid	Y	
8-5-328	Temporary exemption from operating requirements while the internal floating roof is landed on its support legs? * 8-5-328 & 329 exempt per 111, but 328 & 329 impose restrictions on tank cleaning & on activities commenced on excess ozone days	Y	
8-5-330	Is there to be no liquid on the internal floating roof? 8-5-330 at least 3 viewports required, but no specific prohibition on liquid on the IFR	Y	
8-5-401	IFR/CFR Internal Inspections: (up close visual inspection of the floating roof, seals, & fittings): 8-5-401 & 402 Every 10 years	Y	
8-5-403	Tank Top Visual Inspections (of IFR/CFR from manways and hatches of the fixed roof): 8-5-403 Annually	Y	
8-5-404	Notification of Compliance Status report: 8-5-404 Certification to be submitted upon installation for floating-roof rim seals	Y	
	IFRT report to include: 8-5-404 Seal gap measurements (if applicable)	Y	
	Periodic Reports: Miscellaneous additional info to report: 8-5-404.3 Annual certification of tank degassing equipment	Y	
8-5-405	Periodic Reports: Report of IFR/CFR inspection failures to include: 8-5-405 Date of inspection, actual seal gap data, & determination of compliance *	Y	
8-5-501	Applicability records: Additional recordkeeping requirements for certain tanks. 8-5-501 Type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) 8-5-602 or 604	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	determination for applicability: Based on maximum (instantaneous) Tank storage temperature		
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
40 CFR 63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 40 CFR 63.640(n)(1) NSPS subpart Kb	Y	
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal? 40 CFR 63.640(n)(8)(i) YES	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions? 40 CFR 63.640(n)(8)(ii) YES – up to 30 days, or empty the tank within 45 days	Y	
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 40 CFR 63.640(n)(8)(iii) YES	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report? 40 CFR 63.640(n)(8)(iv) YES	Y	
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule? 40 CFR 63.640(n)(8)(v) YES	Y	
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)? 40 CFR 63.640(n)(8)(vi) YES	Y	
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR INTERNAL FLOATING ROOF TANKS		
40 CFR	IFRT operating requirements: 40 CFR 60.112b(a)(1)(i)	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.112b(a)	When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed AS SOON AS POSSIBLE? YES		
	Temporary exemption from operating requirements while the internal floating roof is landed on its support legs? * 40 CFR 60.112b(a)(1)(i) EXEMPT	Y	
	IFR Rim Seals: vapor-mounted primary seal: 60.112b(a)(1)(ii) OK with rim-mounted secondary liquid-mounted primary seal: OK alone mechanical-shoe primary seal: OK alone	Y	
	Must IFR vapor-mounted rim seals be continuous? 40 CFR 60.112b(a)(1)(ii)(B) REQUIRED	Y	
	IFR deck openings other than for vents to project into liquid? 40 CFR 60.112b(a)(1)(iii) REQUIRED	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 40 CFR 60.112b(a)(1)(iv) REQUIRED	Y	
	IFR access hatch & gauge float well covers to be bolted closed? 40 CFR 60.112b(a)(1)(iv) REQUIRED	Y	
	IFR well covers to be gasketed? 40 CFR 60.112b(a)(1)(iv) & (ix) REQUIRED	Y	
	IFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 40 CFR 60.112b(a)(1)(iv) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y	
	IFRT slotted guidepoles to have a deck cover gasket and pole wiper, and either an internal float or a pole sleeve? 40 CFR 60.112b(a)(1)(iv) Required per FR notices 65 FR 2336 (01/14/00) 65 FR 19891(04/13/00)	Y	
	IFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 40 CFR 60.112b(a)(1)(v) REQUIRED	Y	
	IFR vents to be gasketed? 40 CFR 60.112b(a)(1)(v) & (vi) REQUIRED	Y	
	IFR rim space vents to remain 40 CFR 60.112b(a)(1)(vi)	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	closed except when the pressure setting is exceeded? REQUIRED		
	IFR sample penetration to be a sample well with a slit-fabric seal over 90% of the opening? 40 CFR 60.112b(a)(1)(vii) REQUIRED	Y	
	IFR guidepole & column wells allowed a flexible-fabric sleeve seal or a gasketed cover? 40 CFR 60.112b(a)(1)(viii) OK for columns	Y	
40 CFR 60.113b(a)	IFR/CFR Internal Inspections: (up close visual inspection of the floating roof, seals, & fittings): 40 CFR 60.113b(a)(1) & (4) Prior to initial fill, then every 10 years, including each emptying/degassing	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For IFR/CFR internal inspections: 40 CFR 60.113b(a)(1) & (5) Required-Notifications & reports per Ongoing Reports	Y	
	Shall there be no holes, tears, or openings in the IFR seals? 40 CFR 60.113b(a)(1), (2), & (4) REQUIRED	Y	
	Is there to be no liquid on the internal floating roof? 40 CFR 60.113b(a)(2) REQUIRED	Y	
	Tank Top Visual Inspections (of IFR/CFR from manways and hatches of the fixed roof): 40 CFR 60.113b(a)(2) annually after initial fill	Y	
	IFRT REPAIRS: Time allowed for repair of defects found during in-service inspections: 40 CFR 60.113b(a)(2) make repairs within 45 days	Y	
	IFRT REPAIRS: If unable to repair, empty the tank & remove from service? 40 CFR 60.113b(a)(2) YES, within 45 days	Y	
	EXTENSIONS OF TIME: If defects cannot be repaired & the IFRT cannot be emptied within 45 days? 40 CFR 60.113b(a)(2) 1 extension of 30 days, if needed *	Y	
	Periodic Reports: IFR/CFR report to include prior request for 30-day extension, w/ documentation of need? 40 CFR 60.113b(a)(2) Required *	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an IFR/CFR: 40 CFR 60.113b(a)(2) Document the reason for the extension *	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	OPTION: 40 CFR 60.113b(a)(3) & (4) Does this rule allow an internal inspection every 5 years to replace <u>both</u> inspections noted above, if the IFR/CFR is equipped with a secondary seal? YES	Y	
	IFRT REPAIRS: 40 CFR 60.113b(a)(4) Repair of defects if the tank is empty? prior to refilling	Y	
	Notification of Inspections: 40 CFR 60.113b(a)(5) Is 30-day notice required for internal inspections of IFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? REQUIRED	Y	
40 CFR 60.115b	Recordkeeping for inspections: 40 CFR 60.115b Keep inspection reports as specified. Keep for 2 years	Y	
40 CFR 60.115b(a)	IFRT report to include: 40 CFR 60.115b(a)(1) description of control equipment	Y	
	Records of IFR & CFR inspection reports: 40 CFR 60.115b(a)(2) all IFR inspections	Y	
	Periodic Reports: 40 CFR 60.115b(a)(3) & (4) Report of IFR/CFR inspections that find out-of-compliance? Required within 30 days for in-service inspections * (not required for out-of-service inspections)	Y	
	Periodic Reports: 40 CFR 60.115b(a)(3) & (4) Report of IFR/CFR inspection failures to include: date of inspection, identification of tank, description of failure, & date of repair or emptying	Y	
40 CFR 60.116b(a)	Applicability records: 40 CFR 60.116b(a) Time period for keeping records of applicability determination, unless specified otherwise. Keep for 2 years	Y	
40 CFR 60.116b(b)	Applicability records: 40 CFR 60.116b(b) Records of dimensions & capacity required for nonexempt tanks? Required Keep record readily accessible for the life of the tank	Y	
40 CFR 60.116b(c)	Applicability records: 40 CFR 60.116b(c) Additional recordkeeping requirements for certain tanks. identification & TVP of the stored product, if capacity \geq 20,000	Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	gallons and TVP ≥ 2.2 , OR capacity $\geq 40,000$ gallons and TVP ≥ 0.51 Keep record as long as the tank is in that service		
40 CFR 60.116b(e)	True vapor pressure (TVP) determination for applicability: 40 CFR 60.116b(e) maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS		
40 CFR 60.7(a)	Initial Notification: Is initial notification of the source's existence required? 40 CFR 60.7(a)(1) notification within 30 days after begin construction	Y	
	Report (document) having initially achieved compliance? 40 CFR 60.7(a)(3) 60.115b(a)(1) & (b)(1) Within 15 days after initial fill	Y	
	Notification of Compliance Status report: 40 CFR 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] Notification within 15 days after startup	Y	
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 40 CFR 60.7(a)(4) Notification 60 days or as soon as practicable before the change	Y	
40 CFR 60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 40 CFR 60.7(f) Keep all reports & notifications for 2 years	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 40 CFR 60.7(f) Required	Y	
40 CFR 60.14(g)	Achieve compliance for: <u>New</u> Tanks (or tanks that become affected as a result of a change or modification)? 40 CFR 60.14(g) Up to 180 days after modifications (otherwise prior to fill)	Y	
BAAQMD Condition		Y	

IV. Source Specific Applicable Requirements

Table IV – BE
Source-specific Applicable Requirements
NSPS Kb Internal Floating Roof
S-448 (TANK 1007)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
12133			
Part 1	Annual throughput limit [Basis: Cumulative Increase]	Y	
Part 2	Requirements for tank openings [Basis: Cumulative Increase]	Y	
Part 3	Monthly throughput records [Basis: Cumulative Increase]	Y	

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR
S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE		
8-5-207	Closed vent system Performance requirements: 8-5-207 As approved by the APCO (criteria not specified)	Y	
	Control device (other than flare) Compliance demonstration: 8-5-207 Device must be approved in writing by the APCO	Y	
	Control device (flare) Compliance demonstration: 8-5-207 Device must be approved in writing by the APCO	Y	
	Other (initial) Reports: For control device other-than flare? 8-5-207 (Submit request for) approval of proposed collection system & control device	Y	
	Other (initial) Reports: For a flare? 8-5-207 (Submit request for) approval of proposed collection system & control device	Y	
8-5-311	Control device 8-5-311.3	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Performance requirements: At least 95% efficient		
8-5-404	Periodic Reports: 8-5-404.3 Miscellaneous additional info to report: Annual certification of tank degassing equipment	Y	
8-5-501	Applicability records: 8-5-501 Additional recordkeeping requirements for certain tanks. Type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 8-5-602 or 604 Based on maximum (instantaneous) Tank storage temperature	Y	
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
40 CFR 63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 40 CFR 63.640(n)(1) NSPS subpart Kb	Y	
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal? 40 CFR 63.640(n)(8)(i) YES	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions? 40 CFR 63.640(n)(8)(ii) YES – up to 30 days, or empty the tank within 45 days	Y	
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 40 CFR 63.640(n)(8)(iii) YES	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation of the need for an extension with the next semi-annual periodic report? 40 CFR 63.640(n)(8)(iv) YES	Y	
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi- 40 CFR 63.640(n)(8)(v) YES	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	annual periodic report schedule?		
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)? 40 CFR 63.640(n)(8)(vi) YES	Y	
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE		
40 CFR 60.112b(a)	Closed vent system Performance requirements: 40 CFR 60.112b(a)(3)(i) No detectable emissions (i.e., < 500 ppm)	Y	
	Control device Performance requirements: 40 CFR 60.112b(a)(3)(ii) At least 95% efficient, or a flare per 60.18	Y	
	Control device (flare) Compliance demonstration: 40 CFR 60.112b(a)(3)(ii) Flare to be designed as specified in 60.18 (c)	Y	
40 CFR 60.113b(c)	Control device (other than flare) Compliance demonstration: 40 CFR 60.113b(c)(1) Operating plan, efficiency demo, & parameter(s) to be monitored	Y	
	Other (initial) Reports: For control device other-than flare? 40 CFR 60.113b(c)(1) Submit operating plan for approval, with the initial notification	Y	
	Control device (other than flare) Operating requirements: 40 CFR 60.113b(c)(2) Operate and monitor per the plan	Y	
40 CFR 60.113b(d)	Control device (flare) Operating requirements: 40 CFR 60.113b(d) Operate per 60.18 (e) & (f)	Y	
40 CFR 60.115b	Recordkeeping for inspections: Keep inspection reports as specified. 40 CFR 60.115b Keep for 2 years	Y	
40 CFR 60.115b(c)	Recordkeeping for tanks routed to a control device other than a flare: 40 CFR 60.115b(c) Operating plan & records of parametric monitoring data	Y	
40 CFR 60.115b(d)	Other (initial) Reports: For a flare? 40 CFR 60.115b(d)(1) Submit results of compliance demonstration within 6 months of start-up	Y	
	Recordkeeping for tanks 40 CFR 60.115b(d)(2)	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	routed to a flare: Periods of operation in which the pilot flame is absent		
	Periodic Reports: 40 CFR 60.115b(d)(3) Tanks routed to a flare: Semiannual reports of all periods in which the pilot flame was absent	Y	
40 CFR 60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 40 CFR 60.116b(a) Keep for 2 years	Y	
40 CFR 60.116b(b)	Applicability records: 40 CFR 60.116b(b) Records of dimensions & capacity required for nonexempt tanks? Required Keep record readily accessible for the life of the tank	Y	
40 CFR 60.116b(c)	Applicability records: 40 CFR 60.116b(c) Additional recordkeeping requirements for certain tanks. identification & TVP of the stored product, if capacity \geq 20,000 gallons and TVP \geq 2.2, OR capacity \geq 40,000 gallons and TVP \geq 0.51 Keep record as long as the tank is in that service	Y	
40 CFR 60.116b(e)	True vapor pressure (TVP) determination for applicability: 40 CFR 60.116b(e) Maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
40 CFR 60.116b(g)	Applicability determination: 40 CFR 60.116b(g) Miscellaneous recordkeeping exemptions: Keeping record of TVP is not required if tank is routed to a compliant control device	Y	
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS		
40 CFR 60.7(a)	Initial Notification: 40 CFR 60.7(a)(1) Is initial notification of the source's existence required? Notification within 30 days after begin construction	Y	
	Report (document) having initially achieved compliance? 40 CFR 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill	Y	
	Notification of Compliance Status 40 CFR 60.7(a)(3) [cf.	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	report: 60.115b(a)(1)&(b)(1)] notification within 15 days after startup		
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 40 CFR 60.7(a)(4) notification 60 days or as soon as practicable before the change	Y	
40 CFR 60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 40 CFR 60.7(f) Keep all reports & notifications for 2 years	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 40 CFR 60.7(f) required	Y	
40 CFR 60.14(g)	Achieve compliance for: <u>New</u> Tanks (or tanks that become affected as a result of a change or modification)? 40 CFR 60.14(g) up to 180 days after modifications (otherwise prior to fill)	Y	
BAAQMD Condition 12130	APPLICABLE TO S-445	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12131	APPLICABLE TO S-446	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12132	APPLICABLE TO S-447	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition 11219	APPLICABLE TO S-449	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-360	Y	

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE		
8-5-207	Closed vent system 8-5-207 Performance requirements: As approved by the APCO (criteria not specified)	Y	
	Control device (other than flare) 8-5-207 Compliance demonstration: Device must be approved in writing by the APCO	Y	
	Control device (flare) 8-5-207 Compliance demonstration: Device must be approved In writing by the APCO	Y	
	Other (initial) Reports: 8-5-207 For control device other-than flare? (Submit request for) approval of proposed collection system & control device	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Other (initial) Reports: 8-5-207 For a flare? (Submit request for) approval of proposed collection system & control device	Y	
8-5-311	Control device 8-5-311.3 Performance requirements: At least 95% efficient	Y	
8-5-404	Periodic Reports: 8-5-404.3 Miscellaneous additional info to report: Annual certification of tank degassing equipment	Y	
8-5-501	Applicability records: 8-5-501 Additional recordkeeping requirements for certain tanks. Type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 8-5-602 or 604 Based on maximum (instantaneous) Tank storage temperature	Y	
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR TANKS ALSO SUBJECT TO NSPS Kb		
40 CFR 63.640(n)	Which rule governs for storage vessels subject to both Refinery MACT and NSPS subpart Kb? 40 CFR 63.640(n)(1) NSPS subpart Kb	Y	
	Does Refinery MACT provide for EFR secondary seals to be pulled back or temporarily removed during NSPS Kb inspections of the primary seal? 40 CFR 63.640(n)(8)(i) YES	Y	
	Does Refinery MACT provide for delay of NSPS Kb seal gap measurements due to unsafe conditions? 40 CFR 63.640(n)(8)(ii) YES – up to 30 days, or empty the tank within 45 days	Y	
	Does Refinery MACT provide for extensions of time to perform NSPS Kb inspections of unsafe tanks? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for extensions of time to repair defects found during NSPS Kb inspections? 40 CFR 63.640(n)(8)(iii) YES – up to 2 extensions of 30 days each	Y	
	Does Refinery MACT provide for waiving the NSPS Kb prior-request requirement for extensions of time? 40 CFR 63.640(n)(8)(iii) YES	Y	
	Does Refinery MACT provide for submitting NSPS Kb documentation 40 CFR 63.640(n)(8)(iv) YES	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	of the need for an extension with the next semi-annual periodic report?		
	Does Refinery MACT provide for submitting reports of NSPS Kb inspection failures on the semi-annual periodic report schedule? 40 CFR 63.640(n)(8)(v) YES	Y	
	Does Refinery MACT provide for not reporting the results of NSPS Kb inspections when there was no out-of-compliance (i.e., recordkeeping only)? 40 CFR 63.640(n)(8)(vi) YES	Y	
NSPS Subpart Kb	Volatile Organic Liquid Storage Vessels REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE		
40 CFR 60.112b(a)	Closed vent system Performance requirements: 40 CFR 60.112b(a)(3)(i) No detectable emissions (i.e., < 500 ppm)	Y	
	Control device Performance requirements: 40 CFR 60.112b(a)(3)(ii) At least 95% efficient, or a flare per 60.18	Y	
	Control device (flare) Compliance demonstration: 40 CFR 60.112b(a)(3)(ii) Flare to be designed as specified in 60.18 (c)	Y	
40 CFR 60.113b(c)	Control device (other than flare) Compliance demonstration: 40 CFR 60.113b(c)(1) Operating plan, efficiency demo, & parameter(s) to be monitored	Y	
	Other (initial) Reports: For control device other-than flare? 40 CFR 60.113b(c)(1) Submit operating plan for approval, with the initial notification	Y	
	Control device (other than flare) Operating requirements: 40 CFR 60.113b(c)(2) Operate and monitor per the plan	Y	
40 CFR 60.113b(d)	Control device (flare) Operating requirements: 40 CFR 60.113b(d) Operate per 60.18 (e) & (f)	Y	
40 CFR 60.115b	Recordkeeping for inspections: Keep inspection reports as specified. 40 CFR 60.115b Keep for 2 years	Y	
40 CFR 60.115b(c)	Recordkeeping for tanks routed to a control device other than a flare: 40 CFR 60.115b(c) Operating plan & records of parametric monitoring data	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.115b(d)	Other (initial) Reports: For a flare? 40 CFR 60.115b(d)(1) Submit results of compliance demonstration within 6 months of start-up	Y	
	Recordkeeping for tanks routed to a flare: 40 CFR 60.115b(d)(2) Periods of operation in which the pilot flame is absent	Y	
	Periodic Reports: Tanks routed to a flare: 40 CFR 60.115b(d)(3) Semiannual reports of all periods in which the pilot flame was absent	Y	
40 CFR 60.116b(a)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 40 CFR 60.116b(a) Keep for 2 years	Y	
40 CFR 60.116b(b)	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 40 CFR 60.116b(b) Required Keep record readily accessible for the life of the tank	Y	
40 CFR 60.116b(c)	Applicability records: Additional recordkeeping requirements for certain tanks. 40 CFR 60.116b(c) identification & TVP of the stored product, if capacity \geq 20,000 gallons and TVP \geq 2.2, OR capacity \geq 40,000 gallons and TVP \geq 0.51 Keep record as long as the tank is in that service	Y	
40 CFR 60.116b(e)	True vapor pressure (TVP) determination for applicability: 40 CFR 60.116b(e) Maximum TVP of the stored liquid, based on highest calendar month average storage temperature	Y	
40 CFR 60.116b(g)	Applicability determination: Miscellaneous recordkeeping exemptions: 40 CFR 60.116b(g) Keeping record of TVP is not required if tank is routed to a compliant control device	Y	
NSPS Subpart A	New Source Performance Standards GENERAL PROVISIONS		
40 CFR 60.7(a)	Initial Notification: Is initial notification of the source's existence required? 40 CFR 60.7(a)(1) Notification within 30 days after begin construction	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Report (document) having initially achieved compliance? 40 CFR 60.7(a)(3) 60.115b(a)(1) & (b)(1) within 15 days after initial fill	Y	
	Notification of Compliance Status report: 40 CFR 60.7(a)(3) [cf. 60.115b(a)(1)&(b)(1)] notification within 15 days after startup	Y	
	Initial Notification: Is initial notification required if tank becomes affected only as a result of a modification? 40 CFR 60.7(a)(4) notification 60 days or as soon as practicable before the change	Y	
40 CFR 60.7(f)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 40 CFR 60.7(f) Keep all reports & notifications for 2 years	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 40 CFR 60.7(f) required	Y	
40 CFR 60.14(g)	Achieve compliance for: <u>New</u> Tanks (or tanks that become affected as a result of a change or modification)? 40 CFR 60.14(g) up to 180 days after modifications (otherwise prior to fill)	Y	
BAAQMD Condition 12130	APPLICABLE TO S-445	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12131	APPLICABLE TO S-446	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD Condition 12132	APPLICABLE TO S-447	Y	

IV. Source Specific Applicable Requirements

Table IV – BF
Source-specific Applicable Requirements
Kb Fixed Roof w/VR

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
BAAQMD Condition 11219	APPLICABLE TO S-449	Y	
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-360	Y	

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS with tvp >0.5 psia.	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-111	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed AS SOON AS POSSIBLE? 8-5-111 Yes, but only allowed for stock change, tank cleaning, or repairs, & requires written notice	Y	
	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 8-5-111.1 Not required, but 3-day notice is required prior to removing tank from service	Y	
8-5-112	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 8-5-112 YES ** 7-day time limit	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR seal gap measurements: 8-5-112.4 7-day notice required prior to secondary seal replacement; no other notifications specified pertaining to seals	Y	
8-5-311	EFR Rim Seals: vapor-mounted primary seal: 8-5-311.1, 321 Not Allowed liquid-mounted primary seal: 8-5-321.4, 320.1 OK with rim- mounted secondary mechanical-shoe primary seal: 8-5-321.3, 320.1 OK with rim- mounted secondary *	Y	
8-5-320	EFR deck openings other than for vents to project into liquid? 8-5-320.2.1, 4.1 & 5.1 REQUIRED	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFR vents to be gasketed? 8-5-320.2.2 REQUIRED	Y	
	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 8-5-320.2.2 & 4.2 maximum gap = 1/8 in. (& drains not exempt)	Y	
	EFR well covers to be gasketed? 8-5-320.2.2 & 4.2 REQUIRED	Y	
	EFR rim space vents to remain closed except when the pressure setting is exceeded? 8-5-320.3 REQUIRED *	Y	
	EFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 8-5-320.3 REQUIRED *	Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper? 8-5-320.5.2 REQUIRED *	Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve? 8-5-320.5.2 REQUIRED *	Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening? 8-5-320.6 REQUIRED	Y	
8-5-321	DETERMINATION OF EFR RIM-SEAL GAP AREAS: Sum the gap areas & divide by the diameter of the tank? 8-5-321 & 322 Different procedure, limiting the % of circumference over which the gap can be exceeded	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? 8-5-321 & 322 Not addressed If unable to make safe to measure, must the EFRT be emptied? 8-5-321 & 322 Not addressed	Y	
	Shall there be no holes, tears, or openings in the EFR seals? 8-5-321.1 & 322.1 YES	Y	
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 8-5-321.3 YES	Y	
	EFR Primary Seal Gap Inspection Criteria: maximum area: 8-5-321.3 & 321.4 * maximum gap width: 0.5 - 2.5 in. *	Y	
8-5-322	EFR Secondary Seal Gap Inspection Criteria: maximum area: 8-5-322 $\leq 5\%$ with gap > 0.02 in.* maximum gap width: 0.06 in.	Y	
8-5-328	Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 8-5-328 & 329 exempt per 111, but 328 & 329 impose restrictions on tank cleaning & on activities commenced on excess ozone days	Y	
8-5-401	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Primary Seal: 8-5-401 Every 5 years *	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-5-402	Seal Gap Measurements: FREQUENCY AFTER INITIAL COMPLIANCE, For the EFR Secondary Seal: 8-5-402 Annually *	Y	
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 8-5-402 At the same schedule as the secondary seal	Y	
8-5-404	Seal Gap Measurements: 8-5-404 For new EFRTs: Submit certification of seal gap measurements upon installation	Y	
	Notification of Compliance Status report: 8-5-404 Certification to be submitted upon installation for floating-roof rim seals	Y	
	EFRT report to include: 8-5-404 Seal gap measurements	Y	
	Periodic Reports: 8-5-404.3 Miscellaneous additional info to report: Annual certification of tank degassing equipment	Y	
8-5-405	Periodic Reports: 8-5-405 Report EFR seal gap inspections if there was no out-of-compliance? REQUIRED (at same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 8-5-405 REQUIRED (at same frequency as the measurements, but does not specify how promptly; but 404.2.1 specifies that interval between certification of annual secondary seal inspections shall not exceed 15 months)	Y	
	Periodic Reports: Report of EFR inspection failures to include: 8-5-405 Date of inspection, actual seal gap data, & determination of compliance	Y	
8-5-501	Applicability records: Additional recordkeeping requirements for certain tanks. 8-5-501 Type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 8-5-602 or 604 Based on maximum (instantaneous) Tank storage temperature	Y	
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR EXTERNAL FLOATING ROOF TANKS		
40 CFR 63.642(e)	General recordkeeping requirements: Time period for keeping records, unless specified otherwise. 40 CFR 63.642(e) & 63.654(i)(4) Keep all other records 5 years, Retrieval within 24 hr	Y	
	General recordkeeping requirements: Keep all reports and notification for the specified period of time. 40 CFR 63.642(e) & 63.654(i)(4) Required	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.646(a)	EFR Rim Seals: 40 CFR 63.646(a) 63.119(c)(1)(i) - (1)(iii) Not Allowed vapor-mounted primary seal: liquid-mounted primary seal: OK with rim-mounted secondary mechanical-shoe primary seal: OK with rim-mounted secondary	Y	
	Must vapor-mounted rim seals be continuous on EFRs? 40 CFR 63.646(a) 63.119(c)(1)(iii) YES	Y	
	Are EFR rim seals allowed to be pulled back or temporarily removed during inspection? 40 CFR 63.646(a) 63.119(c)(1)(iii) 63.120(b)(4) YES	Y	
	EFRT operating requirements: When landing the floating roof on its support legs, is the tank to be emptied & either refilled or degassed AS SOON AS POSSIBLE? 40 CFR 63.646(a) 63.119(c)(3) & (c)(4) YES	Y	
	Temporary exemption from operating requirements while the external floating roof is landed on its support legs? * 40 CFR 63.646(a) 63.119(c)(3) EXEMPT	Y	
	EFR Internal Inspections: up-close visual inspection of the floating roof, seals, & fittings: 40 CFR 63.646(a) & 63.120(b) Each time the tank is emptied & degassed	Y	
	EXTENSIONS OF TIME: If EFRT is unsafe to inspect & cannot be emptied within 45 days? 40 CFR 63.646(a) & 63.120(b) Up to 2 extensions of 30 days each, if needed	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Notification of Inspections: 40 CFR 63.646(a) Are notifications of 63.120(b)(1) & (9) inspections to demonstrate Required- initial compliance required, Notifications & reports per For EFR seal gap measurements: Ongoing Reports	Y	
	Seal Gap Measurements: 40 CFR 63.646(a) FREQUENCY AFTER 63.120(b)(1)(i) INITIAL COMPLIANCE, For the EFR Primary Seal: Every 5 years	Y	
	Seal Gap Measurements: 40 CFR 63.646(a) For existing EFRTs in compliance 63.120(b)(1)(i) & (iii) by the compliance date: Measure gaps of both seals prior to the compliance date	Y	
	Seal Gap Measurements: 40 CFR 63.646(a) For new EFRTs: 63.120(b)(1)(i) & (iii) Measure gaps of both seals prior to initial fill	Y	
	Seal Gap Measurements: 40 CFR 63.646(a) For affected EFRTs with a 63.120(b)(1)(ii) mechanical-shoe or liquid-mounted Annual primary-only rim seal, prior Primary seal to installing a secondary seal; Gap measurements * PRIOR TO COMPLIANCE: 40 CFR 63.646(a) 63.120(b)(1)(ii) UPON COMPLIANCE: Measure gaps of both seals within 90 days	Y	
	Seal Gap Measurements: 40 CFR 63.646(a) FREQUENCY AFTER 63.120(b)(1)(iii) INITIAL COMPLIANCE, For the EFR Secondary Seal: Annually	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Seal Gap Measurements: 40 CFR 63.646(a) For EFRTs returned to affected 63.120(b)(1)(iv) service after 1 yr or more of Measure gaps of both seals within exempt service: 90 days	Y	
	MEASUREMENT COND'S: 40 CFR 63.646(a) Are EFR seal gap measurements to 63.120(b)(2)(i) be made with the roof floating? YES	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: 40 CFR 63.646(a) Presence of a gap determined by 63.120(b)(2)(ii) inserting a 1/8 in. probe? YES	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: 40 CFR 63.646(a) Use probes of various widths to 63.120(b)(2)(iii) determine the gap area? YES	Y	
	DETERMINATION OF EFR RIM-SEAL GAP AREAS: 40 CFR 63.646(a) Sum the gap areas & divide by the 63.120(b)(3) & (4) diameter of the tank? YES	Y	
	EFR Primary Seal Gap 40 CFR 63.646(a) Inspection Criteria: 63.120(b)(3) maximum area: 10 in² per foot of maximum gap width: 1.5 in.	Y	
	EFR Secondary Seal Gap 40 CFR 63.646(a) Inspection Criteria: 63.120(b)(4) maximum area: 1 in² per foot of vessel diameter maximum gap width: 0.5 in.	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Is the metallic shoe of an EFR mechanical-shoe seal required to have its bottom in the liquid and extend at least 24 in. above the liquid? 40 CFR 63.646(a) 63.120(b)(5)(i) YES	Y	
	Shall there be no holes, tears, or openings in the EFR seals? 40 CFR 63.646(a) 63.120(b)(5)(ii) & (6)(ii) YES	Y	
	UNSAFE CONDITIONS: Delay of EFR seal gap measurements allowed for unsafe conditions? 40 CFR 63.646(a) 63.120(b)(7)(i) Up to 30 additional days If unable to make safe to measure, must the EFRT be emptied? 40 CFR 63.120(b)(7)(ii) YES, within 45 days of determining unsafe	Y	
	EFRT REPAIRS: Time allowed for repair of defects found during in-service inspections of EFRs: 40 CFR 63.646(a) 63.120(b)(8) Make repairs within 45 days If unable to repair, empty the EFRT & remove from service? 40 CFR 63.120(b)(8) YES, within 45 days	Y	
	EXTENSIONS OF TIME: If EFRT defects cannot be repaired & the tank cannot be emptied within 45 days? 40 CFR 63.646(a) 63.120(b)(8) Up to 2 extensions of 30 days each, if needed	Y	
	Notification of Inspections: Are notifications of inspections to demonstrate initial compliance required, For EFR internal inspections: 40 CFR 63.646(a) 63.120(b)(10) Internal inspection. not required for initial compliance	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	EFRT REPAIRS: Repair of defects if the tank is empty? 40 CFR 63.646(a) 63.120(b)(10)(i) Prior to refilling	Y	
40 CFR 63.646(c)	EFR well covers to be gasketed? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFR vents to be gasketed? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFR deck openings other than for vents to project into liquid? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFR access hatch & gauge float well covers to be bolted closed? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFR emergency roof drains to have seals covering at least 90% of the opening? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFR guidepole wells to have a deck cover gasket and a pole wiper? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFRT unslotted guidepoles to have a gasketed cap at the top of the pole? 40 CFR 63.646(c) Not required at existing sources	Y	
	EFRT slotted guidepoles to have either an internal float or a pole sleeve? 40 CFR 63.646(c) Not required at existing sources	Y	
40 CFR 63.646(f)	Deck openings (wells) other than for vents, drains, or legs to have covers that are kept closed except for access? 40 CFR 63.646(f)(1) REQUIRED	Y	
	EFR rim space vents to remain closed except when the pressure setting is exceeded? 40 CFR 63.646(f)(2) REQUIRED	Y	
	EFR auto. bleeder vent (vacuum breaker) to be closed except when the deck is landed? 40 CFR 63.646(f)(3) REQUIRED	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.646(h)	Initial Notification: Is initial notification of the source's existence required? 40 CFR 63.646(h) Table 6 Ref. 63.9 (b)(2) Not required	Y	
40 CFR 63.646(i)	Implementation Plan: 40 CFR 63.646(i) & 63.652(b) Not required *	Y	
40 CFR 63.646(l)	Notification of Inspections: Is the State or local authority allowed to waive the notification requirements? 40 CFR 63.646(l) 63.654(h)(2)(i)(C)&(ii) YES	Y	
40 CFR 63.654(f)	Report (document) having initially achieved compliance? 40 CFR 63.654(f) Later of next Periodic Report after achieving compliance or 1/15/99	Y	
	Notification of Compliance Status report: 40 CFR 63.654(f) Later of next Periodic Report after compliance or January 15, 1999 *	Y	
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)? 40 CFR 63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y	
	EFRT report to include: 40 CFR 63.654(f)(1)(i)(A) Group determinations, actual or anticipated date of compliance; if already in compliance, Description of controls	Y	
40 CFR 63.654(g)	Report of periodic inspections, etc. AFTER documenting initial compliance? 40 CFR 63.654(g) Begin Sept 13, 1999 then semiannual	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Periodic Reports: Report of EFR inspection failures to include: 40 CFR 63.654(g)(2) - (4) Date of inspection, identification of tank, description of failure, & date of repair or emptying	Y	
	Periodic Reports: EFR report to include a prior request for 30-day extension, w/ documentation of need? 40 CFR 63.654(g)(2) - (4) Prior request is not required	Y	
	Periodic Reports: Additional information to be included if an extension is utilized for an EFR: 40 CFR 63.654(g)(2)(i) 63.654(g)(3)(ii) Document the reason for the extension	Y	
	Periodic Reports: Report EFR seal gap inspections if there was no out-of-compliance? 40 CFR 63.654(g)(3)(i) Not required	Y	
	Periodic Reports: Report EFR seal gap inspections when there is out-of-compliance? 40 CFR 63.654(g)(3)(i) Required within 60 days after each semiannual period	Y	
40 CFR 63.654(h)	Notification of Inspections: Is 30-day notice required for internal inspections of EFRTs (i.e., prior to filling or refilling); but a 7-day verbal notice acceptable if the event is unplanned? 40 CFR 63.654(h)(2)(i) 63.646(a) 63.120(b)(10) REQUIRED	Y	
	Notification of Inspections: Is 30-day notice required prior to EFR seal gap measurements? 40 CFR 63.654(h)(2)(ii) 63.646(a) 63.120(b)(9) REQUIRED	Y	
	Report applicability for varying-use tanks? 40 CFR 63.654(h)(6)(ii) w/the initial NOC Status report	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Other (initial) Reports: Report applicability for varying-use tanks? 40 CFR 63.654(h)(6)(ii) Required with the initial Notification of Compliance Status report	Y	
40 CFR 63.654(i)	Applicability records: Time period for keeping records of applicability determination, unless specified otherwise. 40 CFR 63.654(i)(1) 63.123(a) Keep record readily accessible for the service life of the tank	Y	
	Applicability records: Records of dimensions & capacity required for nonexempt tanks? 40 CFR 63.654(i)(1) 63.646(a)&63.119(a)(3) 63.123(a) Required Keep record readily accessible for service life of the tank *	Y	
	Recordkeeping for inspections: Keep inspection reports as specified. 40 CFR 63.654(i)(1) 63.123(c) - (e) All inspections	Y	
	Records of EFR inspection reports: 40 CFR 63.654(i)(1) 63.123(d) All inspections	Y	
	Recordkeeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay. 40 CFR 63.654(i)(1) 63.123 (g) Required	Y	
	Applicability records: Additional recordkeeping requirements for certain tanks. 40 CFR 63.654(i)(1)(iv) Determination of HAP content Keep record readily accessible for service life of the tank	Y	

IV. Source Specific Applicable Requirements

Table IV – BG
Source-specific Applicable Requirements
Tanks (MACT Zero-Gap EFRT)

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-97, S-334, S-107, S-110, S-111, S-112, S-113, S-115, S-122, S-123, S-124, S-125, S-134, S-341, S-342, S-150, S-177, S-183, S-184, S-186, S-216, S-100, S-114, S-126, S-128, S-129, S-133, S-343, S-254, S-255, S-256, S-257, S-258, S-259, S-340	Y	

Table IV – BH
Source-specific Applicable Requirements
MACT Fixed Roof W/VR
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Reg 8 Rule 5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE		
8-5-207	Closed vent system 8-5-207 Performance requirements: As approved by the APCO (criteria not specified)	Y	
	Control device (other than flare) 8-5-207 Compliance demonstration: Device must be approved in writing by the APCO	Y	

IV. Source Specific Applicable Requirements

Table IV – BH
Source-specific Applicable Requirements
MACT Fixed Roof W/VR
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Control device (flare) 8-5-207 Compliance demonstration: Device must be approved in writing by the APCO	Y	
	Other (initial) Reports: 8-5-207 For control device other-than flare? (Submit request for) approval of proposed collection system & control device	Y	
	Other (initial) Reports: 8-5-207 For a flare? (Submit request for) approval of proposed collection system & control device	Y	
8-5-311	Control device 8-5-311.3 Performance requirements: At least 95% efficient	Y	
8-5-404	Periodic Reports: 8-5-404.3 Miscellaneous additional info to report: Annual certification of tank degassing equipment	Y	
8-5-501	Applicability records: 8-5-501 Additional recordkeeping requirements for certain tanks. Type of liquid stored & its TVP, for all nonexempt tanks *	Y	
8-5-602	True vapor pressure (TVP) determination for applicability: 8-5-602 or 604 Based on maximum (instantaneous) Tank storage temperature	Y	
Refinery MACT	NESHAP for Petroleum Refineries REQUIREMENTS FOR FIXED ROOF TANK-CONTROL DEVICE		
40 CFR 63.642(e)	General recordkeeping requirements: 40 CFR 63.642(e) & 63.654(i)(4) Time period for keeping records, unless specified otherwise. Keep all other records 5 years, Retrievable within 24 hr	Y	
	General recordkeeping requirements: 40 CFR 63.642(e) & 63.654(i)(4) Keep all reports and notification for the specified period of time. Required	Y	
40 CFR 63.646(a)	Control device 40 CFR 63.646(a) & (d) Performance requirements: 63.119(e) At least 95% efficient (or 90% if older than 7/15/94), or a flare per 63.11(b)	Y	

IV. Source Specific Applicable Requirements

Table IV – BH
Source-specific Applicable Requirements
MACT Fixed Roof W/VR
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Control device (other than flare) 40 CFR 63.646(a) Compliance demonstration: 63.120(d) Design evaluation or performance test, plus monitoring plan {30-day notice required prior to performance tests, per 63.642(d)(2)}	Y	
	Control device (other than flare) 40 CFR 63.646(a) Operating requirements: 63.120(d) Operate such that the monitored parameters remain within the specified ranges	Y	
	Closed vent system 40 CFR 63.646(a) Performance requirements: 63.120(d)(6) & 63.148 No detectable emissions (i.e., < 500 ppm)	Y	
	Control device (flare) 40 CFR 63.646(a) Compliance demonstration: 63.120(e) Demonstrate compliance with 63.11(b)	Y	
	Control device (flare) 40 CFR 63.646(a) Operating requirements: 63.120(e) Operate per 63.11 (b)	Y	
40 CFR 63.646(h)	Initial Notification: 40 CFR 63.646(h) Is initial notification of the source's existence required? Table 6 Ref. 63.9 (b)(2) Not required	Y	
40 CFR 63.646(i)	Implementation Plan: 40 CFR 63.646(i) & 63.652(b) Not required *	Y	
40 CFR 63.646(l)	Notification of Inspections: 40 CFR 63.646(l) Is the State or local authority allowed to waive the notification requirements? 63.654(h)(2)(i)(C)&(ii) YES	Y	
40 CFR 63.654(f)	Report (document) having initially achieved compliance? 40 CFR 63.654(f) Later of next Periodic Report after achieving compliance or 1/15/99	Y	
	Notification of Compliance Status report: 40 CFR 63.654(f) Later of next Periodic Report after compliance or January 15, 1999 *	Y	

IV. Source Specific Applicable Requirements

Table IV – BH
Source-specific Applicable Requirements
MACT Fixed Roof W/VR
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Report determination of applicability for other individual tanks (i.e., for MACT rules, whether Group1 or Group2)? 40 CFR 63.654(f)(1)(i)(A) with initial Notification of Compliance Status; Jan. 15, 1999	Y	
	Other (initial) Reports: For control device other-than flare? 40 CFR 63.654(f)(1)(i)(B)&(C) [63.646(a) 63.120(d)(2) & (3)] 63.654(f)(2) & (3) 63.654(g)(7) Submit compliance determination & monitoring plan, w/ the Notification of Compliance Status report {30-day notice required prior to performance tests, per 63.642(d)(2)}	Y	
	Other (initial) Reports: For a flare? 40 CFR 63.654(f)(1)(i)(D) [63.646(a) 63.120(e)(2)] 63.654(f)(2) Submit compliance determination, with the initial Notification of Compliance Status report	Y	
40 CFR 63.654(g)	Report of periodic inspections, etc. AFTER documenting initial compliance? 40 CFR 63.654(g) begin Sept 13, 1999 then semiannual	Y	
	Periodic Reports: Miscellaneous additional info to report: 40 CFR 63.654(g)(5)(i) & (ii) For tanks routed to a control device other-than a flare, semiannual reports of planned routine maintenance, and all periods of monitored parameter excursions *	Y	
	Periodic Reports: Tanks routed to a flare 40 CFR 63.654(g)(5)(i) & (iii) Semiannual reports of planned routine maintenance and all periods in which the flare was not in compliance *	Y	
40 CFR 63.654(h)	Report applicability for varying-use tanks? 40 CFR 63.654(h)(6)(ii) w/the initial NOC Status report	Y	

IV. Source Specific Applicable Requirements

Table IV – BH
Source-specific Applicable Requirements
MACT Fixed Roof W/VR
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
	Other (initial) Reports: 40 CFR 63.654(h)(6)(ii) Report applicability for varying-use tanks? Required with the initial Notification of Compliance Status report	Y	
40 CFR 63.654(i)	Applicability records: 40 CFR 63.654(i)(1) Time period for keeping records of applicability determination, 63.123(a) unless specified otherwise. Keep record readily accessible for the service life of the tank	Y	
	Applicability records: 40 CFR 63.654(i)(1) Records of dimensions & capacity 63.646(a)&63.119(a)(3) required for 63.123(a) Non-exempt tanks? Required Keep record readily accessible for service life of the tank *	Y	
	Recordkeeping for inspections: 40 CFR 63.654(i)(1) Keep inspection reports as 63.123(c) - (e) specified. all inspections	Y	
	Recordkeeping for tanks routed to a control device other than a flare: 40 CFR 63.654(i)(1) 63.123(f) Records of parametric monitoring data and planned routine maintenance *	Y	
	Recordkeeping for tanks routed to a flare: 40 CFR 63.654(i)(1) 63.123(f) Records of planned routine maintenance *	Y	
	Recordkeeping for delayed repairs: When utilizing a delay of repair provision, keep documentation of the reason for the delay. 40 CFR 63.654(i)(1) 63.123 (g) Required	Y	
	Applicability records: 40 CFR 63.654(i)(1)(iv) Additional recordkeeping requirements for certain tanks. Determination of HAP content Keep record readily accessible for service life of the tank	Y	
BAAQMD Condition 13184	APPLICABLE TO S-182	Y	

IV. Source Specific Applicable Requirements

Table IV – BH
Source-specific Applicable Requirements
MACT Fixed Roof W/VR
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Requirement to vent emissions to fuel gas system [Basis: Cumulative Increase]	Y	
Throughput Limits, Permit Section VI	See Section VI for annual throughput limits for sources S-139, S-140	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

CONDITION 383

APPLICATIONS 30417/15852; PHILLIPS 66 SAN FRANCISCO UNOCAL REFINERY; PLANT 16
CONDITIONS FOR S-350

1. Sulfur content of crude processed in Crude Unit #267 (S-350) shall not exceed 1.5 weight%.
[Cumulative Increase]
2. Crude Unit #267 (S-350) feed rate shall not exceed 30,000 bbl per day on a 12 month rolling average basis. Crude Unit #267 feed rate shall never exceed 33,000 bbl on any calendar day. The 33,000 bbl/day limit and 30,000 bbl/day 12 month rolling average limit are absolute limits and may not be corrected for instrument error. [Cumulative Increase]
- ~~3. All fuel use related to S-350 will be reported at the S-351 preheaters.~~
- 3a4. Monthly records of "calendar day" throughput and "12 month rolling average" throughput shall be maintained in a District-approved log. These records shall be kept for at least five years and shall be made available to the District upon request. [Cumulative Increase]
- 3b. The sulfur content of each separate source of crude oil processed at S-350 shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

Note on Condition 476: Condition 476 will be revised as shown below, and Parts B.4, B.6 and B.7 (S-43 and S-44 requirements), will be moved to Condition 1694. Only coker throughput limits and other coker requirements will remain in Condition 476.

CONDITION 476

~~APPLICATION 18696; UNOCAL REFINERY; PLANT 16~~
~~CONDITION 476 FOR S-43, S-44, S-300, S-355 (REVISED I.A.W. LETTER DATED MAY 3, 1999)~~

VI. Permit Conditions

A. Definitions And Abbreviations (Partial)

1. Start-up: that period of time during which the piece of equipment in question is put into normal operation from an inactive status by following a prescribed series of separate steps or operations.
2. Shutdown: that period of time during which the piece of equipment in question is taken out of service from a normal operating mode to an inactive status following a prescribed series of separate steps or operations.
3. Annual average basis: an average daily amount determined by dividing a 12 month running total by 365.
4. ppmdv: parts per million dry volume.
5. C5/C6: petroleum products containing pentane, hexane and cyclic compounds.

[\[Definitions\]](#)

B. Operations

1. The total charging rate to S-300, Coking Unit 200, shall not exceed 56,000 barrels per any day. The annualized daily average shall not exceed 52,000 barrels.

[\[Cumulative Increase\]](#)

~~2. [Fuel oil combustion limit transferred to Condition 1694].~~

~~3. [Marine terminal throughput limits transferred to Condition 4336].~~

~~4. Nitrogen oxide emissions from the S-43 Coking Furnace (Unit 200 B-6) shall be abated by Selective Catalytic Reduction Unit A-4.~~

~~5. [deleted 4/3/98]~~

~~6. The nitrogen oxides in the flue gases for S-43, Unit 200 B-6 Coking Furnace and S-44, Unit 200 B-7 PCT Reboil Furnace shall not exceed 40 ppmdv as NO₂ corrected to 3% oxygen, dry, over any consecutive 8 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours.~~

~~7. The carbon monoxide in the flue gas for S-43, Unit 200 B-6 Coking Furnace and S-44, Unit 200 B-7 PCT Reboil Furnace shall not exceed 50 ppmdv corrected to 3% oxygen averaged over any calendar month. This condition shall not apply during start-up and shutdown. However, if Union can demonstrate to the APCO's satisfaction that actual CO emissions averaged over the first six calendar months of operation of these units exceed~~

VI. Permit Conditions

~~this limit despite best modern practices, this 50 ppm limitation may be increased to a level which can be attained based on such initial period of operation.~~

~~C.~~ Monitoring And Source Testing

- ~~1. Union shall maintain an instrument to continuously monitor and record the H₂S concentration in the fuel gas being supplied to the following new or modified units, which will be required to comply with the New Plant Performance and Emission Requirements for the burning of fuel gas (0.23 gram of H₂S per dry standard cubic meter):~~

~~S-43, UNIT 200 B-6 COKING FURNACE S-44, UNIT 200 B-7 PCT REBOIL FURNACE~~

- ~~42. Union shall install i~~Instruments shall be installed and operated to continuously monitor the percentage of oxygen and the concentration of nitrogen oxides from the following sources: S-43, Unit 200 B-2026 Coking Furnace and S-44, Unit 200 B-2017 PCT Reboil Furnace. ~~(CO monitoring conditions deleted i.a.w. 8/22/96 letter from District to Unocal)~~
[BACT]

- ~~3. Startup conditions deleted.~~

~~C.D.~~ Reporting And Recordkeeping

1. ~~A file~~Union shall be maintained ~~which a file~~ containsing (1) all measurements, records, charts and other data which must be collected pursuant to the provisions of this conditional permit and (2) such other data and calculations necessary to determine actual emissions from emission points covered by this permit. This file (which may contain confidential or proprietary data) shall include, but not be limited to: ~~the data collected from all in-stack monitoring instruments, the records on fuel input rates and~~ records of quantities of crude oil and other hydrocarbons processed on an actual daily basis. This material shall be kept available for District inspection for a period of at least 52 years following the date on which such measurements, records or other data are made or recorded. [BACT, Cumulative Increase]

2. Each month, within 30 days of the end of the month an operational report shall be made to the APCO. Each monthly report shall include the following information for the month being reported:

a. S-300 Coking Unit 200 daily charging rate for all feed streams

~~b. S-335 Marine Terminal monthly shipping totals in the following categories:~~

- ~~1. Product code 1 gasoline, naptha or C5/C6 on loaded onto ships~~
- ~~2. Product code 2 gasoline, naptha or C5/C6 on loaded onto barges~~
- ~~3. Product code 4 crude oil lightered to barges~~

[BACT, Cumulative Increase]

~~c. Monthly total refinery fuel oil usage.~~

VI. Permit Conditions

~~E. Access~~

- ~~1. The APCO or his representatives and the U.S. EPA shall have access to any portion of the refinery, including process unit control rooms and wharf operations to conduct source tests or inspections in accordance with District Regulation Section 1-440 and the provisions of the Clean Air Act. If access is denied in the interest of safety and/or to minimize interference with the operations of the refinery, Union shall report the specific reason why access was denied to the APCO in writing within 3 days.~~
- ~~2. The APCO or his representatives and the U.S. EPA shall have the right to inspect and audit: (a) all records which are required to be maintained under Section D, above; and (b) any other records in Union's possession which may indicate the nature or quantity of emission from refinery and wharf operations, in accordance with Section 1-441 of the District's Rules and Regulations and the provisions of the Clean Air Act. any of said records which Union deems to include materials that constitute trade secrets or proprietary data or information shall be so designated and shall be treated as such in accordance with applicable statutes and regulations.~~

~~F. Enforcement~~

- ~~1. Violation by Union, its officers, employees or representatives, or any of the conditions set forth in this conditional permit shall subject Union to enforcement action under Chapter 4 of Part 4 of Division 26 of the California Health and Safety Code, and to enforcement action by the US EPA pursuant to the Clean Air Act (42 USC Section 7401, et seq.). As appropriate, each and every such violation shall be deemed to be a discrete and separate violation with respect to which the District will be entitled to take legal action.~~

DG. Miscellaneous

- ~~1. Within 90 days of the initial start-up of any equipment under this permit, Union shall submit to the APCO an accounting of all valves and pumps removed and/or installed as a result of this authority to construct (all valves and pumps shall be identified with the same nomenclature used in District Regulations 8-18 and 8-25, respectively). Union may be required to offset any significant increase in fugitive emissions indicated by this report.~~
- ~~2. Nothing in these conditions shall be construed to allow the violation of any law or of any rule or regulation of the Bay Area Air Quality Management District, the State of California or the United States Environmental Protection Agency by the Union Oil Company.~~
- ~~3. Startup conditions deleted.~~
14. Compliance by Union with the annual average basis limits set forth in Section B-4 through B.3 above shall be determined monthly based on the information contained in the operational reports submitted pursuant to Section D.2 above for the previous twelve months. [BACT, Cumulative Increase]

VI. Permit Conditions

~~H. Severability~~

- ~~1. The provisions of this conditional Authority to Construct are intended to be severable, and, if any individual condition or provision hereof is held to be invalid by order of any court of competent jurisdiction, or for any other reason, the remainder of this conditional Authority to Construct shall not be affected thereby.~~

~~S-43 NOx Retrofit~~

- ~~1. [Firing limits replaced by limits in Condition 1694 9/27/99]~~
- ~~2. [Startup condition deleted 9/27/99]~~
- ~~3. S-43 shall each be provided with a dedicated fuel flowmeter in accordance with Regulation 9-10-502.2. [Regulation 9, Rule 10]~~
- ~~4. [Startup condition deleted 9/27/99]~~
- ~~5. The requirement for monitoring in Regulation 9-10-502 is satisfied for S-43 by continued operation of the existing NOx and oxygen CEMs. [Regulation 9, Rule 10]~~
- ~~6. Monthly records of the type and amount of fuel combusted at S-43 shall be maintained in a District approved log for at least 5 years and shall be made available to the District upon request. [Recordkeeping]~~

CONDITION 1440

APPLICATIONS 483/5504; PHILLIPS 66 SAN FRANCISCO REFINERY; PLANT 16
PERMIT CONDITIONS FOR S-324, S-381, S-382, S-383, S-384, S-385, S-386, S-387, S-390, S-392, S-
400, S-401 API SEPARATOR AND S-1007, S-1008, S-1009 DAF UNIT

- ~~1. The Water Effluent Treating Facility shall comply with the EPA's proposed NSPS for "VOC Emissions From Petroleum Refinery Wastewater Systems".~~
12. S-324 API Separator shall be operated such that the liquid in the main separator basin is in full contact with fixed concrete roof. This condition shall not apply during separator shutdown for maintenance. [Cumulative Increase]
23. Diversions of refinery wastewater around the Water Effluent Treating Facility to the open Storm Water Basins (S-1008, S-1009) shall be minimized. These diversions shall not cause a nuisance as defined in District Regulation 7 or Regulation 1-301. [Cumulative Increase]
34. Records shall be maintainedUnocal shall maintain records of each incident in which refinery wastewater is diverted to the open storm water basins. These records shall include the reason for the diversion, the total quantity of wastewater diverted to the basins, and the approximate

VI. Permit Conditions

hydrocarbon content of the water. _____ [Cumulative Increase]

~~5. Unocal shall take corrective measures to reduce odorous emissions from the Water Effluent Treating Facility immediately after a violation of Regulation 1-301 "Public Nuisance" or Regulation 7 "Odorous Substances" is attributed to the facility. These corrective measures may include, but are not limited to, the installation of fixed covers on any wastewater process vessels, basins, distribution boxes, and tanks that the District determines to be odorous.~~

46. The following sources shall have no detectable VOC emissions ("no detectable VOC emissions" is defined according to EPA Test Method 21 as less than 500 ppm above background levels):
- a. Doors, hatches, covers, and other openings on the S-324 API Separator, forebay, outlet basin, and channel to the S-1007 DAF Unit.
 - b. Doors, hatches, covers, and other openings on the S-1007 DAF Unit and the S-400 Wet and S-401 Dry Weather Sumps, except for the vent opening on these units.
 - c. Any open process vessel, distribution box, tank, or other equipment downstream of the S-1007 DAF Unit (S-381, S-382, S-383, S-384, S-385, S-386, S-387, S-390, S-392).
- _____ [Cumulative Increase]

57. Compliance with the VOC emission criteria of Part 4 Condition 6 shall be determined every 6 months and records kept of each inspection. These records shall be made available to District personnel upon request. _____ [Cumulative Increase]

68. The maximum wastewater throughput at the S-324 API Separator and S-1007 DAF Unit shall not exceed 7,500 gpm during media filter backwash and 7,000 gpm during all other times for each unit. Any modifications to equipment at this facility which increase the annual average waste water throughput at S-324 and S-1007 shall first be submitted to the BAAQMD in the form of a permit application. _____ [Cumulative Increase]

Note on Condition 1694: Condition 1694 will now include the parts of Conditions 476 (excluding coker throughput limits) and 12123 (all parts) which apply to combustion sources. Thus, Condition 1694 will become the only condition for non-cogeneration plant combustion sources.

CONDITION 1694

APPLICATION 18623; ~~PHILLIPS 66 SAN FRANCISCO UNOCAL~~ REFINERY; PLANT 16
CONDITIONS ~~1694~~ FOR S-351, 371, 372 COMBUSTION SOURCES AND ~~OTHER~~ SO₂ CAP ~~SOURCES~~.
EXCEPT FOR GAS TURBINES AND DUCT BURNERS

A. Heater Firing Rate Limits ~~(Added 9/27/99)~~ and General Requirements

1. Each heater listed below shall not exceed the indicated daily firing rate limit (based on higher heating value of fuel) which are considered maximum sustainable firing

VI. Permit Conditions

rates. The indicated hourly firing rate is the daily limit divided by 24 hours and is the basis for permit fees and is the rate listed in the District database.

District Source Number	Refinery To See ID Number	Daily Firing Limit (MM BTU/day)	Hourly Firing Rate (MM BTU/hr)
S-2	U229/B301	528	22
S-3	U230/B201	1,488	62
S-4	U231/B101	2,304	96
S-5	U231/B102	2,496	104
S-7	U231/B103	1,536	64
S-8	U240/B1	6,144	256
S-9	U240/B2	1,464	61
S-10	U240/B101	4,416	184
S-11	U240/B201	2,592	108
S-12	U240/B202	1,008	42
S-13	U240/B301	4,656	194
S-14	U240/B401	13,344	556
S-15 thru S19	U244/B501 thru B505	5,754	239.75
S-20	U244/B506	552	23
S-21	U244/B507	194.4	8.1
S-22	U248/B606	744	31
S-29	U200/B5	2,472	103
S-30	U200/B101	1,200	50
S-31	U200/B501	480	20
S-43	U200/B202	5,520	230
S-44	U200/B201	1,104	46
S-336	U231/B104	2,664	111
S-337	U231/B105	816	34
S-351	U267	2,424	101
S-371/372	U228	1,392	58
S-438	U110	5,040	210

[Regulation 2-1-234.3]

2a. All sources shall use only a blend of refinery gas and natural gas, or pure natural gas as fuel, EXCEPT for S-438 which may also use pressure swing adsorption (PSA) off gas as fuel.

[Regulation 9-1-304 (sulfur content), Regulation 2, Rule 1]

2b. Sources permitted to use liquid fuel shall be monitored for visible emissions during tube cleaning during daylight hours. If any visible emissions are detected when the operation commences, corrective action shall be taken within one day, and monitoring shall be performed after the corrective action is taken. If no visible emissions are detected, monitoring shall be performed on an hourly basis.

[Regulation 2-6-409.2]

2c. Sources permitted to use liquid fuel shall each be monitored for visible emissions before each 1 million gallons of liquid fuel is combusted at all sources combined. If an inspection documents visible emissions, a Method 9 evaluation shall be completed within 3 working days, or during

VI. Permit Conditions

the next scheduled operating period if the specific unit ceases firing on liquid fuel within the 3 working day time frame. [Regulation 2-6-409.2]

ALL COMBUSTION SOURCES

3a1. The refinery fuel gas shall be tested~~Unocal shall test the refinery fuel gas~~ for total reduced sulfur (TRS) concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. _____ [SO2 Bubble]

3b2. The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report. _____ [SO2 Bubble]

43. Emissions of SO2 shall not exceed~~Unocal shall not emit more than~~ 1,581.58 lb/day ~~of SO2~~ on a monthly average basis from non-cogeneration sources burning fuel gas, fuel oil or diesel fuel. _____ [SO2 Bubble]

4. The concentration of H2S in the fuel gas combusted at all refinery combustion sources shall not exceed 230 mg/dscm (0.10 gr/dscf) in accordance with 60 CFR, Subpart J, Section 60.104(a)(1).

5. No more than 134 barrels per day of fuel oil shall be combusted in the refinery on an annual average basis (condition transferred from Condition 476). _____ [SO2 Bubble]

6. The following records shall be maintained in a District-approved log for at least 5 years and shall be made available to the District upon request:

a. Daily and monthly records of the type and amount of fuel combusted at each source listed in Part A.1. _____ [Regulation 2, Rule 1]

b. TRS sample results as required by Part A.3~~CONDITION 2~~ _____ [SO2 Bubble]

c. SO2 emissions as required by Part A.4~~CONDITION 3~~ _____ [SO2 Bubble]

~~and hydrogen sulfide concentrations required by CONDITION 4. Records shall be retained for at least two years and shall be made available to the District upon request.~~

~~Unocal shall maintain records of fuel oil combustion as required by CONDITION 5~~

d. The operator shall keep records of all visible emission monitoring required by Part 2b, shall identify the person performing the monitoring and shall describe all corrective actions taken. _____ [Regulation 2-6-409.2]

e. The operator shall keep records of the total amount of liquid fuel combusted at sources permitted to use liquid fuel, of the results of required visual monitoring and Method 9 evaluations on these sources, shall identify the person performing the monitoring and shall describe all corrective actions taken.

_____ [Regulation 2-6-409.2]

B. S-351 PREHEATER

VI. Permit Conditions

1. The S-351 heater shall be abated by the A-~~642~~ SCR unit at all times.

[BACT, Cumulative Increase]
2. The concentration of NOx from S-351 shall not exceed 20 ppmv @ 3% oxygen, dry, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours. _____ [BACT, Cumulative Increase]
3. ~~The following instruments shall be installed and maintained. One shall install and maintain the following District approved instrumentation~~ to demonstrate compliance with ~~Part~~ Condition 2:
 - a. continuous NOx analyzer/recorder
 - b. continuous O2 or CO analyzer/recorder _____ [BACT, Cumulative Increase]
4. ~~No fuel other than natural gas and refinery fuel gas shall be burned in S-351.~~
5. ~~[Firing rate limit replaced by limits above 9/27/99]~~

C. S-371 AND S-372 FURNACES

1. The S-371 furnace shall be abated by the A-16 SCR unit at all times. The S-372 furnace shall be abated by the A-17 SCR unit at all times. _____ [BACT, Cumulative Increase]
2. The concentration of NOx from either S-371 or S-372 shall not exceed 20 ppmv, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period, which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours.

[BACT, Cumulative Increase]
3. ~~Startup conditions deleted.~~
4. ~~[Firing rate limit replaced by limits above 9/27/99]~~
35. The concentration of CO emissions from S-371 shall not exceed 50 ppmv, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. This limit shall not apply during a startup period, which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown

VI. Permit Conditions

period, which shall not exceed 9 hours. ~~A continuous emissions monitor (CEM) is not required to monitor continuous compliance with this CO emissions limitation. Source tests will be made periodically by the District's Source Test Group to verify compliance.~~

[BACT, Cumulative Increase]

D. S-43 Coking Furnace (Unit 200 B-202) and S-44 (Unit 200 B-201 PCT Reboil Furnace)

1. Nitrogen oxide emissions from the S-43 Coking Furnace (Unit 200 B-202) shall be abated by Selective Catalytic Reduction Unit A-4. [BACT, Cumulative Increase]

2. The nitrogen oxides in the flue gases for S-43, Unit 200 B-202 Coking Furnace and S-44, Unit 200 B-201 PCT Reboil Furnace shall not exceed 40 ppmdv corrected to 3% oxygen, dry, over any consecutive 8 hour period. This limit shall not apply during a startup period which shall not exceed 12 hours. The startup exemption period may last up to 24 hours to allow the proper ammonia injection temperature to be reached provided that the temperature is monitored at least once per hour and that ammonia injection begins within 2 hours of reaching the proper temperature. This limit shall also not apply during a shutdown period which shall not exceed 9 hours.

[BACT, Cumulative Increase]

3. The carbon monoxide in the flue gas for S-43, Unit 200 B-202 Coking Furnace and S-44, Unit 200 B-201 PCT Reboil Furnace shall not exceed 50 ppmdv corrected to 3% oxygen averaged over any calendar month. This condition shall not apply during start-up and shutdown.

[BACT, Cumulative Increase]

E. S-438 FURNACE

1. The S-438 furnace shall be abated by the A-46 SCR unit at all times.

[BACT, Cumulative Increase]

2. Total fuel fired in S-438 shall not exceed 2.04 E 12 BTU in any rolling consecutive 365 day period.

[Cumulative Increase]

3. Pressure swing adsorption (PSA) off gas used as fuel at S-438 shall not exceed 1.0 ppm (by weight) total reduced sulfur (TRS). TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide.

[BACT, Cumulative Increase]

4. The following emission concentration limits from S-438 shall not be exceeded. These limits shall not apply during startup periods not exceeding 24 hours (72 hours when drying refractory or during the first startup following catalyst replacement) and shutdown periods not exceeding 24 hours. The District may approve other startup and shutdown durations.

NOx: 10 ppmv @ 3% oxygen, averaged over any 3 hour period

CO: 32 ppmv @ 3% oxygen, averaged over any calendar day

[BACT, Cumulative Increase]

5. The concentration of TRS in the blended fuel gas shall not exceed 50 ppmv averaged over any

VI. Permit Conditions

calendar month. [BACT, Cumulative Increase]

6. Daily records of the type and amount of fuel combusted at S-438 and of the TRS and hydrogen sulfide concentration in the blended fuel gas, and monthly records of average blended fuel gas TRS concentration, shall be maintained for at least five years and shall be made available to the District upon request. [Recordkeeping]

F. S-2, S-3, S-4, S-5, S-7, S-8, S-9, S-10, S-11, S-12, S-13, S-14 Heaters

1. Total fuel firing at Unit 240 (S-8, S-9, S-10, S-11, S-12, S-13, S-14) shall not exceed 993.7 MM BTU/hr averaged over any consecutive 12 month period. [Cumulative Increase]
2. Total fuel fired at the MP-30 Complex, including Unit 229 (S-2), Unit 230 (S-3) and Unit 231 (S-4, S-5, S-7) shall not exceed 346.5 MM BTU/hr averaged over any consecutive 12 month period. [Cumulative Increase]
3. Monthly records of the fuel fired at sources in parts 1 and 2 shall be kept in a District-approved log for at least 5 years and shall be made available the District upon request. [Recordkeeping]

S-4, S-5, S-29, S-30, S-31, S-336 AND S-337 NOX RETROFITS (APPLICATION 18696)

1. ~~[Firing rate limits replaced by limits above 9/27/99]~~
2. ~~[Startup condition deleted 9/27/99]~~
3. ~~These sources shall each be provided with a dedicated fuel flowmeter in accordance with Regulation 9-10-502.2. [Regulation 9, Rule 10]~~
4. ~~[Startup condition deleted 9/27/99]~~
5. ~~The requirement for monitoring in Regulation 9-10-502 is satisfied for these sources through the performance of an initial source test [performed May 1999]. [Regulation 9, Rule 10]~~
6. ~~Monthly records of the type and amount of fuel combusted at each source shall be maintained in a District approved log for at least 5 years and shall be made available to the District upon request. [Recordkeeping]~~

S-11, S-13 NOX RETROFITS (APPLICATION 19318)

1. ~~S-11 and S-13 shall be modified as follows to achieve compliance with the facility wide NOx emission limit of Regulation 9-10-301:~~
 - ~~S-11—installation of low NOx burners~~
 - ~~S-13—installation of low NOx burners and selective catalytic reduction [Regulation 9, Rule 10]~~

VI. Permit Conditions

2. ~~These sources shall each be provided with a dedicated fuel flow meter in accordance with Regulation 9-10-502.2. Each flow meter shall be in operation prior to the performance of the initial source test described in ITEM 4. [Regulation 9, Rule 10]~~
3. ~~After modification, an initial source test shall be performed on each source in accordance with Regulation 9-10-501. In addition to the requirements in this regulation, the following procedures shall be followed: [Regulation 9, Rule 10]~~
 - a. ~~The permit holder shall notify the Manager of the District Source Test Section at least seven (7) days prior to the test, to provide District staff the option of observing the testing. Regulation 2-1-403]~~
 - b. ~~Within 45 days of test completion, a comprehensive report of the test results shall be submitted to the District Director of Compliance and Enforcement. [Regulation 2-1-403]~~
4. ~~Monthly records of the type and amount of fuel combusted at each source shall be maintained in a District approved log for at least 5 years and shall be made available to the District upon request [Recordkeeping]~~

CONDITION 1860

~~APPLICATION 1660, PHILLIPS 66 SAN FRANCISCO REFINERY, UNION OIL COMPANY OF CA~~
~~APPL. #1660 PLANT: 16~~
~~CONDITIONS FOR S-388, S-389, & S-391~~

1. ~~Organic emissions from A-42 Carbon Adsorption System shall not exceed 500 ppm (as methane) above background, measured 1 cm from the final carbon adsorber outlet.~~
2. ~~Organic emissions from A-43, A-44, and A-45 Carbon Adsorption Systems shall not exceed 300 ppm (as methane) above background, measured 1 cm from the final carbon adsorber outlet of each abatement system.~~
13. Tank T-276 and mixer F-205 Sludge Pre-Treatment and Mixing Facility (S-388) shall be gas-tight, with no detectable emissions. "Detectable Emissions" shall be defined as organic concentration exceeding 300 ppm as methane above background.

[Cumulative Increase]
24. S-388 shall be vented to the Sour Fuel Gas Recovery Refinery Vapor Recovery System (~~S-338~~) at all times that S-388 is operating.

[Cumulative Increase]
5. ~~S-391 Dewatering Facility shall be vented to A-42, A-43, A-44, and A-45 at all times that S-391 is operating.~~
36. Unocal shall monitor the outlet VOC concentrations from A-42, A-43, A-44 and A-45 at least once per 8 hour shift whenever S-391 is operating. S-388 shall be included in the facility fugitive emission monitoring program required by Regulation 8, Rule 18.

[Regulation 8, Rule 18]

VI. Permit Conditions

- ~~7. Total N2 Purge Gas shall not exceed 363,000 ft³/day through S-391. Total Air Blowing shall not exceed 907,000 ft³/day through S-391.~~
- ~~8. Spent carbon canisters shall be disposed of in a manner that minimizes VOC emissions.~~
- ~~9. Unocal shall take corrective measures to reduce odorous emissions attributed to S-388 or S-391 immediately upon issuance of a Notice of Violation by the District for Regulation 1-301 "Public Nuisance" or Regulation 7 "Odorous Substances". These corrective measures may include, but are not limited to, the complete enclosure of all sludge cake handling equipment and/or the addition of more carbon adsorption canisters at any emission point that the District determines to be odorous.~~
- ~~10. Unocal shall maintain appropriate records to demonstrate compliance with Permit Conditions #1, 2, & 6. This data shall be made available to District personnel upon request.~~

CONDITION 4336

APPLICATION 4332, 15994; PHILLIPS 66 SAN FRANCISCO UNOCAL REFINERY; PLANT 16
CONDITIONS 4336 FOR S-425, S-426A-420

- ~~1. Wharfs S-425, S-426, S-427, S-428 and S-429 are subject to the emission limits in Regulation 8, Rule 44, and may not exceed POC emissions of 2 pounds per thousand barrels of loaded material at any wharf.~~
12. For each loading event of "regulated organic liquid", the A-420 shall be operated with an exhaust temperature of at least 1300 degrees F during the first 15 minutes of the loading operation. After the initial 15 minutes of loading, the A-420 exhaust temperature shall be at least 1400 degrees F. [Cumulative Increase]
23. Instruments shall be installed and maintained to~~Unocal shall install instrumentation to~~ monitor and record the following:
 - a. Static pressure developed in the marine tank vessel
 - b. A-420 exhaust temperature.
 - c. Hydrocarbons and flow to determine mass emissions or a concentration measurement alone if it is demonstrated~~Unocal demonstrates~~ to the satisfaction of the APCO that concentration alone allows verification of compliance, or
 - d. Any other device that verifies compliance, with prior approval from the APCO.[Cumulative Increase]
34. A "regulated~~Unocal shall not load or permit the loading of a "regulated~~ organic liquid" shall not be loaded from this facility into a marine tank vessel within the District whenever A-420 is not fully operational. A-420 must be maintained to be leak free, gas tight, and in good working order. For the purposes of this condition, "operational" shall mean the system is achieving the reductions required by Regulation 8, Rule 44~~Condition 4~~; "regulated organic

VI. Permit Conditions

liquids" include gasoline, gasoline blendstocks, aviation gasoline and JP-4 aviation fuel and crude oil. [Cumulative Increase]

45. A leak test shall be conducted on all vessels loading under positive pressure prior to loading more than 20% of the cargo. The leak test shall include all vessel relief valves, hatch cover, butterworth plates, gauging connections, and any other potential leak points.
[Cumulative Increase]

56. ~~Loading pressure shall not exceed Unocal shall not exceed a loading pressure greater than~~ 80% of the lowest relief valve set pressure of the vessel being loaded.
[Cumulative Increase]

The following conditions are transferred from Condition 476.

67. No more than 25,000 barrels per day of gasoline, naphtha and C5/C6 shall be shipped across the wharf on an annual average basis. [Cumulative Increase]
- a. When barges are used to ship gasoline, naphtha or C5/C6, the volume of these materials shipped during any reporting period is to be multiplied by a factor of 1.66 and included in the shipping totals to determine compliance with the throughput limits.
- b. When barges are used to lighter crude oil, the volume of oil lightered during any reporting period shall be multiplied by a factor of 0.42 and included in the shipping totals to determine compliance with the throughput limits. The vessel Exxon Galveston is considered a ship for the purposes of this condition.
78. All throughput records required to verify compliance with Part~~CONDITION 67~~ and maintenance records required for A-420, which are subject to Regulation 8, Rule 44, shall be kept on site for at least 5~~two~~ years and made available to the District upon request.
[Cumulative Increase]

~~CONDITION 4897~~

- ~~1. The secondary seal on Tank 193 (S-133) shall meet zero-gap criteria as defined in District Regulation 8-5-325.~~

~~CONDITION 6208~~

- ~~1. The secondary seal on Tank 288 (S-178) shall meet the zero-gap criteria as defined in District Regulation 8-5-325.~~

Note on Condition 6671: Parts 2 3 and 4 of Condition 6671 (from Application 7145) are incorporated into Condition 1694.

CONDITION 6671

VI. Permit Conditions

APPLICATION 18377; RODEO REFINERY; PLANT 16
CONDITIONS FOR ~~S-304, S-305, S-306~~, S-307

~~APPLICATION 7145~~

- ~~1. [Application 7145 startup condition deleted]~~
- ~~2. Total fuel firing at Unit 240 (S-307) shall not exceed 993.7 MM BTU/hr averaged over any consecutive 12 month period. [Cumulative Increase]~~
- ~~3. Total fuel firing at the MP-30 Unit (S-304, S-305 and S-306) shall not exceed 346.5 MM BTU/hr averaged over any consecutive 12 month period. [Cumulative increase]~~
- ~~4. Monthly records of the total fuel firing at S-304, S-305, S-306 and S-307 shall be kept in a District approved log for at least 5 years and shall be made available to the district upon request. [Recordkeeping]~~

APPLICATION 18377

1. The vapor vent on the E-421 condenser (overhead condenser on D-406 condensate stripper in U-240 Unicracker Complex hydrogen plant) shall be vented to the A-50 condenser whenever the vent operates. [Regulation 8-2-301]
2. A-50 shall reduce total organic carbon emissions from the E-421 vent as necessary to a level which complies with Regulation 8-2-301. [Regulation 8-2-301]
3. All blowdown and other liquid effluent from A-50 shall be piped to the plant wastewater treatment system. [Cumulative Increase]
4. Whenever the U-240 hydrogen plant operates, normal flow of scrubbing liquid through the E-421 scrubber pumparound pump and normal flow of cooling water through the pumparound cooler shall be verified on a daily basis. [Cumulative Increase]
5. Daily records (on days when the U-240 hydrogen plant operates) of normal scrubbing liquid flow and normal cooling water flow shall be kept in a District-approved log for at least five years and shall be made available to the District upon request. [Cumulative IncreaseRecordkeeping]
- ~~6. Within 60 days of the startup of A-50, a source test shall be performed at E-421 to verify compliance with Regulation 8-2-301. This test shall be performed with hydrogen production no higher than 35 MM scf/day. This source test shall also be performed in accordance with a protocol approved by the District Source Test Manager. A copy of the source test results shall be provided to the Director of Compliance and Enforcement within 30 days of the completion of the test. [Source Test]~~

VI. Permit Conditions

CONDITION 6725

APPLICATION 6122; PHILLIPS 66 SAN FRANCISCO REFINERY; PLANT 16

CONDITIONS FOR S-432

- 1) All new flanges in hydrocarbon service associated with the S-432 Deisobutanizer project shall utilize graphitic gaskets. All new valves in hydrocarbon service associated with the project shall be either live-loaded valves, bellows-sealed valves, diaphragm valves, or other District approved equivalent valve designs. [BACT, Cumulative Increase]
- 2) All new pressure relief valves in hydrocarbon service associated with the S-432 project shall be vented to the refinery flare gas recovery system. [BACT, Cumulative Increase]
- 3) All new pumps and compressors in hydrocarbon service associated with the S-432 project shall utilize either a double mechanical shaft seal design with barrier fluid, a magnetically coupled shaft, or other District approved equivalent design. If a barrier fluid is used, either the fluid reservoir shall be vented to a 95% efficient control device, or the barrier fluid shall be operated at a pressure higher than the process stream pressure. [BACT, Cumulative Increase]

CONDITION 6755

- ~~1. S-343 shall be equipped with a secondary wiper seal which complies with the District's "zero gap" seal criteria, as defined in Regulation 8-5-325.~~

In Condition 7353, the following changes are made:

- A limitation on total MOSC project emissions is deleted because the project involves tankage and fugitive emissions, where emissions are based on design, rather than operation, and therefore a continuing emission limit is unnecessary.
- References to A-7 are deleted in favor of a requirement to vent all emissions to the fuel gas system; this does not reflect a change in operation, but a change in terminology for consistency with other sources abated in this way.
- References to fugitive component emission limits (in ppm) are deleted because current requirements in Regulation 8-18 are more strict.

CONDITION 7353

CONDITIONS

- ~~1. The total release of POC emissions from this S-433 MOSC project which includes fugitive emissions from the valves, pumps and flanges shall not exceed 1.239 tons in any rolling 52 consecutive week period.~~
12. The emissions from the S-433 MOSC storage tank shall be collected and vented to the fuel gas system ~~abated by the vapor recovery system A-7.~~ [Cumulative Increase]

VI. Permit Conditions

- ~~3. The control efficiency of the A-7 vapor recovery system shall be no less than 95%.~~
- ~~4. Total fugitive POC emissions from all new and modified equipment associated with S-433 combined shall not exceed 5.1 pounds in any rolling 24 consecutive day period. The owner/operator of these sources shall submit a revised pump, valve and flange count within 15 days of start up in order to show compliance with this permit condition. If fugitive emissions from this source exceed 5.1 lb/day, then the District may adjust the cumulative increase attributable to this permit application before the issuance of the Permit to Operate.~~
- ~~25. All stationary pumps, valves, flanges and pressure relief valves associated with S-433 shall comply with District Regulation 8, Rules 18, 25 and 28. Valves shall be equipped with live-loaded packing. Pumps shall be equipped with double mechanical seals separated by a barrier fluid.~~ [Cumulative Increase]
- ~~36. The S-433 Fixed Roof Storage Tank shall only store sludge.~~ [Cumulative Increase]
- ~~47. The total throughput of sludge at this MOSC facility shall not exceed 138,700 barrels in any rolling 52 consecutive week period.~~ [Cumulative Increase]
- ~~8. The flanges shall not exceed a POC emission concentration of 200 ppm above background (expressed as methane measured at 1 cm from the flange).~~
- ~~9. The valves shall not exceed a POC emission concentration of 1000 ppm above background (expressed as methane measured at 1 cm from the valve).~~
- ~~540. The total weekly throughput of sludge withdrawn from the S-433 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least five~~two~~ years from date of entry. It shall be kept on site and made available to the District staff upon request.~~ [Cumulative Increase]

CONDITION 7523

APPLICATION 22088; PHILLIPS 66 SAN FRANCISCO REFINERY; PLANT 16
CONDITIONS FOR S-294 (GDF 7609)

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 400,000 gallons in any consecutive 12 month period. [Basis: Toxic Risk Policy]

CONDITION 11219

PHILLIPS 66 SAN FRANCISCO REFINERY-TOSCO; PLANT 16-(revised i.a.w. 1/12/98 memo)
CONDITIONS FOR S-449 (T-285)

1. Working emissions from S-449 shall be collected and vented to the facility odor abatement compressors for addition to the refinery fuel gas supply. Other abatement devices, which

VI. Permit Conditions

provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [\[Cumulative Increase\]](#)

CONDITION 12121

APPLICATION 12412; [PHILLIPS 66 SAN FRANCISCO UNOCAL](#) REFINERY; PLANT 16
CONDITION [S-357](#) FOR S-370

1. The feed rate at the S-370 isomerization unit (U-228) shall not exceed 11,040 barrels on any calendar day, defined as the sum of the isomerization fresh reactor charge and the adsorber fresh feed. [\[Cumulative Increase\]](#)
2. Daily records of the S-370 feed rate shall be maintained for at least ~~five~~^{two} years and shall be made available to the District upon request. [\[Recordkeeping\]](#)

CONDITION 12122

APPLICATION [30810, 14527](#), 18281; [PHILLIPS 66 SAN FRANCISCO TOSCO](#) RODEO REFINERY;
PLANT 16
CONDITIONS FOR S-352, 353, 354, 355, 356, 357

1. The gas turbines (S-352, S-353 and S-354) and the heat recovery steam generator (HRG) duct burners (S-355, S-356 and S-357) shall be fired on refinery fuel gas or natural gas. [\[Cumulative Increase\]](#)
2. A HRG duct burner shall be operated only when the associated gas turbine is operated. [\[Cumulative Increase\]](#)
3. The exhaust from S-352 and S-355 shall be abated at all times by SCR/oxidizing catalyst unit A-13. [\[BACT, Cumulative Increase\]](#)
4. The exhaust from S-353 and S-356 shall be abated at all times by SCR/oxidizing catalyst unit A-14. [\[BACT, Cumulative Increase\]](#)
5. The exhaust from S-354 and S-357 shall be abated at all times by SCR/oxidizing catalyst unit A-15. [\[BACT, Cumulative Increase\]](#)
6. ~~[Deleted Application 18281]~~
7. ~~[Deleted Application 18281]~~
8. ~~[Deleted Application 18281]~~
69. Total fuel fired in S-355, S-356, and S-357 shall not exceed 2.42 E 12 BTU in any consecutive 365 day period. [\[Cumulative Increase\]](#)

VI. Permit Conditions

- ~~10. Each gas turbine shall comply with the 9 ppmv NOx limit at 15% oxygen in Regulation 9, Rule 9.~~
- ~~744.~~ CO emissions from each turbine/duct burner set shall not exceed 39 ppmv at 15% oxygen, averaged over any consecutive 30 day period. Emissions during startup periods, which shall not exceed four hours, and shutdown periods, which shall not exceed two hours, may be excluded when averaging emissions. [BACT, Cumulative Increase]
- ~~842.~~ POC emissions from each turbine/duct burner set shall not exceed 6 ppmv at 15% oxygen, ~~averaged over any consecutive 30 day period.~~ Emissions during startup periods, which shall not exceed four hours, and shutdown periods, which shall not exceed two hours, may be excluded when averaging emissions. [BACT, Cumulative Increase]
- ~~9a43.~~ The combined NOx emissions (~~calculated as NO2~~) from S- 352, S-353, S-354, S-355, S-356 and S-357 shall not exceed 66 lb/hr (averaged over any 3 hour period), nor 167 tons in any consecutive 365 day period. NOx emissions from each turbine/duct burner set shall not exceed 528 lb/day. [BACT, Cumulative Increase]
- ~~9b.~~ NOx emissions from S- 352, S-353, S-354, S-355, S-356 and S-357 shall be monitored with a District-approved continuous emission monitor. [BACT, Cumulative Increase]
- ~~10a44.~~ The combined CO emissions from S-352, S-353, S-354, S- 355, S-356 and S-357 shall not exceed 200 tons in any consecutive 365 day period. [BACT, Cumulative Increase]
- ~~10b.~~ CO emissions from S- 352, S-353, S-354, S-355, S-356 and S-357 shall be monitored with a District-approved continuous emission monitor. [BACT, Cumulative Increase]
- ~~1145.~~ The combined POC emissions S-352, S-353, S-354, S-355, S-356 and S-357 shall not exceed 8.3 lb/hr nor 30.5 tons in any consecutive 365 day period. [BACT, Cumulative Increase]
- ~~16. Unocal shall install, calibrate and operate a District-approved continuous system to monitor and record the fuel consumption and the ratio of steam injected to fuel fired in each gas turbine in accordance with 60 CFR Subpart Db and GG.~~
- ~~17. Unocal shall install, calibrate and operate District approved continuous monitors for NOx, carbon monoxide and either oxygen or carbon dioxide downstream of each of the gas turbine/duct burner units, in accordance with 60 CFR Subpart Db and GG.~~
- ~~18. Within 90 days of the issuance of Authority to Construct 12412, Unocal shall perform a source test to verify compliance with the benzene, acetaldehyde and PAH emission factors assumed in Application 12412 (non-detectable, 6.17E-5 and 4.45 E-6 pounds per million BTU of heat input, respectively), at one of the turbine/duct burner sets. PAH's shall include the following compounds: benzo (a) anthracene, benzo (a) pyrene, benzo (b) flouranthene, benzo (k) flouranthene, dibenzo (a,h) anthracene, indeno(1,2,3-cd) pyrene. A detailed protocol~~

VI. Permit Conditions

~~describing the test operating conditions and procedures shall be submitted to the District at least 30 days before the test date.~~

~~19. Within 60 days of the completion of the source test, a copy of the source test data and test report shall be provided to the District.~~

~~1220. The Unocal shall test the~~ refinery fuel gas shall be tested for total reduced sulfur (TRS) concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide. [Cumulative Increase]

~~1324.~~ The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report. [Cumulative Increase]

~~22. The concentration of hydrogen sulfide in the fuel gas combusted at S-352 through S-357 shall not exceed 230 mg/dscm (0.10 gr/dscf) in accordance with 60 CFR, Subpart J, Section 60.104(a)(1).~~

~~1423. SO2 emissions shall not exceed Unocal shall not emit more than~~ 1,581 lb/day of SO2 on a monthly average basis from non-cogeneration sources burning fuel gas, fuel oil or diesel fuel. Records shall be maintained Unocal shall maintain records to verify compliance with this condition. Records shall be retained for at least two years and shall be made available to the District upon request. [Cumulative Increase / SO2 Bubble]

~~15. A source test to verify compliance with Parts 8 and 11 shall be performed each calendar year in accordance with District source test methods or other methods approved in advance by the District. A copy of the test report shall be provided to the District Director of Compliance and Enforcement within 45 days of completion of the test.~~ [Regulation 2-6-409.2]

~~1624. Records shall be maintained Unocal shall maintain records~~ to allow verification of compliance with all permit conditions. Records shall be retained for at least ~~five~~two years and shall be made available to the District upon request. [BACT, Cumulative Increase]

Note on Condition 12123: Portions of Condition 12123 (all except S-438 requirements) are redundant to Condition 1694. The S-438 requirements will be moved to Condition 1694.

CONDITION 12123

~~APPLICATION 12412; UNOCAL REFINERY; PLANT 16
CONDITIONS FOR S-351, 371, 372, 438 & OTHER SO2 CAP SOURCES
S-351-PREHEATER~~

VI. Permit Conditions

1. ~~The S-351 heater shall be abated by the A-12 SCR unit at all times.~~
2. ~~The concentration of NO_x from S-351 shall not exceed 20 ppmv @ 3% oxygen, averaged over any 3-hour period. This limit shall apply to all periods of operation except start-up periods, which shall not exceed three hours, and shut-down periods, which shall not exceed one hour for S-350 or S-351. Only one startup/shutdown period is allowed per source per calendar day.~~
3. ~~Unocal shall install and maintain the following District approved instrumentation to demonstrate compliance with Condition 2:~~
 - a. ~~continuous NO_x analyzer/recorder~~
 - b. ~~continuous O₂ or CO analyzer/recorder~~
4. ~~No fuel other than natural gas and refinery fuel gas shall be burned in S-351.~~
5. ~~[Firing limit replaced by limit in Condition 1694 9/27/99]~~

~~S-371 AND S-372 FURNACES~~

1. ~~The S-371 furnace shall be abated by the A-16 SCR unit at all times. The S-372 furnace shall be abated by the A-17 SCR unit at all times.~~
2. ~~The concentration of NO_x from either S-371 or S-372 shall not exceed 20 ppmv corrected to 3% oxygen, averaged over any 3-hour period. This condition shall not apply during startup periods not exceeding 3 hours and shutdown periods not exceeding 1 hour for sources S-370, S-371 or S-372. Only one startup/shutdown period is allowed per source per calendar day.~~
3. ~~[Startup conditions deleted]~~

E. S-438 FURNACE

1. The S-438 furnace shall be abated by the A-46 SCR unit at all times.
[BACT, Cumulative Increase]
2. Total fuel fired in S-438 shall not exceed 2.04 E 12 BTU in any rolling consecutive 365 day period.
[Cumulative Increase]
3. Pressure swing adsorption (PSA) off gas used as fuel at S-438 shall not exceed 1.0 ppm (by weight) total reduced sulfur (TRS). TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide.
[BACT, Cumulative Increase]
4. The following emission concentration limits from S-438 shall not be exceeded. These limits shall not apply during startup periods not exceeding 24 hours (72 hours when drying refractory or during the first startup following catalyst replacement) and shutdown periods not

VI. Permit Conditions

exceeding 24 hours. The District may approve other startup and shutdown durations.

NOx: 10 ppmv @ 3% oxygen, averaged over any 3 hour period

CO: 32 ppmv @ 3% oxygen, averaged over any calendar day

[BACT, Cumulative Increase]

5. The concentration of TRS in the blended fuel gas shall not exceed 50 ppmv averaged over any calendar month. [BACT, Cumulative Increase]
- ~~6. The concentration of hydrogen sulfide in the fuel gas combusted at S-438 shall not exceed 230 mg/dscm (0.10 gr/dscf) in accordance with 60 CFR, Subpart J, Section 60.104(a)(1).~~
- ~~7. Unocal shall install, calibrate and operate District approved continuous emission monitors for NOx and oxygen, in accordance with 60 CFR Subpart Db and Gg.~~
- ~~68. Daily records of the type and amount of fuel combusted at S-438 and of the TRS and hydrogen sulfide concentration in the blended fuel gas, and monthly records of average blended fuel gas TRS concentration, shall be maintained for at least five~~two~~ years and shall be made available to the District upon request. [BACT, Cumulative Increase]~~
- ~~9. [Startup source test condition deleted; test completed satisfactorily 3/19/98.]~~
- ~~10. [Startup source test condition deleted; source test report provided to District.]~~

ALL COMBUSTION SOURCES

- ~~1. Unocal shall test the refinery fuel gas for total reduced sulfur (TRS) concentration at least once per 8 hour shift (3 times per calendar day). At least 90% of these samples shall be taken each calendar month. No readable samples or sample results shall be omitted. TRS shall include hydrogen sulfide, methyl mercaptan, methyl sulfide, dimethyl disulfide.~~
- ~~2. The average of the 3 daily refinery fuel gas TRS sample results shall be reported to the District in a table format each calendar month, with a separate entry for each daily average. Sample reports shall be submitted to the District within 30 days of the end of each calendar month. Any omitted sample results shall be explained in this report.~~
- ~~3. The average TRS concentration of the refinery fuel gas shall not exceed 230 ppm by volume, calculated on monthly average basis.~~
- ~~4. Unocal shall not emit more than 1,581 lb/day of SO₂ on a monthly average basis from non-eogeneration sources burning fuel gas, fuel oil or diesel fuel.~~
- ~~5. The concentration of H₂S in the fuel gas combusted at all refinery combustion sources shall not exceed 230 mg/dscm (0.10 gr/dscf) in accordance with 60 CFR, Subpart J, Section 60.104(a)(1).~~

VI. Permit Conditions

- ~~6. No more than 134 barrels per day of fuel oil shall be combusted in the refinery on an annual average basis (condition transferred from Condition 476).~~
- ~~7. Unocal shall maintain records of fuel oil combustion as required by CONDITION 6, TRS sample results as required by CONDITION 2, SO₂ emissions as required by CONDITION 4, and hydrogen sulfide concentrations required by CONDITION 5. Records shall be retained for at least two years and shall be made available to the District upon request.~~

CONDITION 12124

APPLICATION 12412; ~~PHILLIPS 66UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-439 (T-109)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:
- 3,650 thousand barrels [Cumulative Increase]
- ~~2. S-439 is subject to the requirements of Regulations 8-5-311.1, 320, 321 and 322.~~
[Regulation 8-5-300]
23. S-439 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]
34. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative IncreaseRecords]

CONDITION 12125

APPLICATION 12412; ~~PHILLIPS 66UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-440 (T-110)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:
- 3,600 thousand barrels [Cumulative Increase]
- ~~2. S-440 is subject to the requirements of Regulations 8-5-311.1, 320, 321 and 322.~~
[Regulation 8-5-300]
23. S-440 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]

VI. Permit Conditions

34. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative IncreaseRecords]

CONDITION 12127

APPLICATION 12412; ~~PHILLIPS 66UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-442 (T-112)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

2,740 thousand barrels [Cumulative Increase]
- ~~2. S-442 is subject to the requirements of Regulations 8-5-311.1, 320, 321 and 322.~~
[Regulation 8-5-300]
23. S-442 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]
34. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative IncreaseRecords]

CONDITION 12129

APPLICATION 12412; ~~PHILLIPS 66UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-444 (T-243)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

4,380 thousand barrels [Cumulative Increase]
- ~~2. S-444 is subject to the requirements of Regulations 8-5-311.1, 320, 321 and 322.~~
[Regulation 8-5-300]
23. S-444 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT]
34. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative IncreaseRecords]

VI. Permit Conditions

CONDITION 12130

APPLICATION 12412; PHILLIPS 66 SAN FRANCISCO REFINERY~~TOSCO~~; PLANT 16
CONDITIONS FOR S-445 (T-271) ~~—(revised i.a.w. 1/12/98 memo)~~

1. Working emissions from S-445 shall be collected and vented to the ~~facility odor abatement compressors for addition to the~~ refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12131

APPLICATION 12412; PHILLIPS 66 SAN FRANCISCO~~UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-446 (T-310)

1. Working emissions from S-446 shall be collected and vented to the ~~facility odor abatement compressors for addition to the~~ refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12132

APPLICATION 12412; PHILLIPS 66 SAN FRANCISCO~~UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-447 (T-311)

1. Working emissions from S-447 shall be collected and vented to the ~~facility odor abatement compressors for addition to the~~ refinery fuel gas supply. Other abatement devices, which provide at least 95% abatement of VOC emissions by weight, may be used with the prior approval of the District. [Cumulative Increase]

CONDITION 12133

APPLICATION 12412; PHILLIPS 66~~UNOCAL~~ REFINERY; PLANT 16
CONDITIONS FOR S-448 (T-1007)

1. The following total throughput shall not be exceeded in any rolling continuous 12 month period:

2,190 thousand barrels

[Cumulative Increase]

- ~~2. S-448 is subject to the requirements of Regulations 8-5-311.1, 320, 321 and 322.~~

~~[Regulation 8-5-300]~~

VI. Permit Conditions

23. S-448 shall operate with closed, gasketed covers on all tank openings except pressure relief valves and vacuum breaker valves. [BACT] |
34. Monthly records of the throughput of each material processed at this tank shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase~~Records~~] |

VI. Permit Conditions

CONDITION 12245

APPLICATION 13410; PHILLIPS 66 SAN FRANCISCO UNOCAL SF REFINERY; PLANT 16
CONDITIONS FOR S-450

1. Groundwater extracted from the S-450 trench system shall be pumped to the Unocal wastewater treatment plant for treatment and shall not be exposed to the atmosphere except as required at the treatment plant. [Cumulative Increase]
2. All extraction pump vaults and piping access boxes shall be equipped with solid covers. [Cumulative Increase]

CONDITION 13184 CONDITIONS

1. The POC emissions from the S-182 fixed roof storage tank shall be collected and vented at all times to the fuel gas collection system by the A-64 and A-65 Vapor Recovery Systems. [Cumulative Increase]

CONDITION 16677

APPLICATION 117; PHILLIPS 66 SAN FRANCISCO TOSCO RODEO REFINERY; PLANT 16
CONDITIONS FOR S-376, 377, 378

1. Net usage of citrus-based solvent at S-376, S-377 and S-378 shall not exceed 150 gallons each in any consecutive 12-month period. [Cumulative Increase]
2. Cleanup solvent other than the material(s) specified in Part 1, and/or usage in excess of that specified in Part 1, may be used, provided that the Permit Holder can demonstrate that all of the following are satisfied:
 - a. Total POC emissions from S-376, S-377 and S-378 do not exceed 1,095 pounds each in any consecutive 12-month period; and
 - b. The use of these materials does not increase toxic emissions above any risk screening trigger level. [Cumulative Increase and Toxic Risk Screen]
3. To determine compliance with the above requirements, the Permit Holder shall maintain the following records and provide all of the data necessary to evaluate compliance, including:
 - a. Type and monthly usage of all solvents used;
 - b. If a material other than those specified in Part 1 is used, POC and toxic component contents of each material used; and mass emission calculations to demonstrate compliance with Part 2, on a monthly basis;
 - c. Monthly usage and emission calculations (if calculations are required by Part 3b) shall be

VI. Permit Conditions

totaled for each consecutive 12-month period.

All records shall be retained for at least 5 years and shall be made available to the District upon request. These requirements shall not replace the recordkeeping requirements contained in any applicable District Regulations.

[Cumulative Increase and Toxic Risk Screen]

CONDITION 18251

Conditions for S-380, S-389

- 1a. Activated Carbon Silo S-380 shall be vented through the A-20 baghouse whenever it is in service.
- 1b. Activated Carbon Silo S-389 shall be vented through the A-21 baghouse whenever it is in service. [Regulation 2-1-234]
- 2a. Baghouses A-20 and A-21 shall be equipped with differential pressure gauges to allow monitoring of baghouse operating condition. [Regulation 1-441]
- 2b. Differential pressure on baghouses A-20 and A-21 shall be checked at least once per month to verify normal operating condition on each baghouse. [Regulation 1-441]
3. A record of monthly differential pressure readings for baghouses A-20 and A-21 shall be maintained in a District-approved log for at least 5 years and shall be made available to the District upon request. [Regulation 1-441]

CONDITION 18255

Conditions for S-296, S-398

1. Flares S-296 and S-398 shall each be visually inspected as soon as possible after a release is determined to occur from the flare, but no later than 1 hour after the release begins, to verify proper smokeless operation. [Regulation 2-1-234]

VI. Permit Conditions

CONDITION 18629

Conditions for S-352, S-353, S-354, S-355, S-356, S-357

May 30, 1989 PSD Permit Amendments (first issued March 3, 1986)
Permit NSR 4-4-3 SFB 85-03

~~I. Permit Expiration~~

[Obsolete – Approval to Construct executed in a timely manner]

~~II. Notification of Commencement of Construction and Startup~~

[Obsolete – Approval to Construct executed in a timely manner]

III. Facilities Operation

All equipment, facilities and systems installed or used to achieve compliance with the terms and conditions of this Approval to Construct/Modify shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

IV. Malfunction

The Regional Administrator shall be notified by telephone within two working days following any failure of air pollution control equipment, process equipment, or of any process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in Section IX of these conditions. In addition, the Regional Administrator shall be notified in writing within 15 days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under Section IX of these conditions, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause.

V. Right to Entry

The Regional Administrator, the head of the State Air Pollution Control Agency, the head of the responsible local air pollution control agency, and/or their authorized representatives, upon presentation of credentials, shall be permitted:

A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this Approval to Construct/Modify; and

B. at reasonable times to have access to and copy any records required to be kept under the

VI. Permit Conditions

terms and conditions of this Approval to Construct/Modify; and

C. to inspect any equipment, operation, or method required in this Approval to Construct/Modify; and

D. to sample emissions from this source.

VI. Transfer of Ownership

In the event of any changes in control or ownership of facilities to be constructed or modified, this Approval to Construct/Modify shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this Approval to Construct/Modify and its conditions by letter, a copy of which shall be forwarded to the Regional Administrator and the State and local Air Pollution Control Agency.

VII. Severability

The provisions of this Approval to Construct/Modify are severable, and, if any provisions of this Approval to Construct/Modify is held invalid, the remainder of this Approval to Construct/Modify shall not be affected thereby.

VIII. Other Applicable Regulations

The owner and operator of the proposed project shall construct and operate the proposed stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable Federal, State and local air quality regulations.

IX. Special Conditions

A. Certification

[Obsolete – Approval to Construct executed in a timely manner]

B. Air Pollution Control Equipment

The Phillips 66 Company shall install, continuously operate, and maintain the following air pollution controls to minimize emissions. Controls listed shall be fully operational upon startup of the proposed equipment.

1. Each gas turbine shall be equipped with steam injection for the control of NO_x emissions.
2. Each gas turbine shall be equipped with a Selective Catalytic Reduction (SCR) system for the control of NO_x emissions.
3. Each gas turbine shall be equipped with an oxidizing catalyst system for the control of CO emissions.

VI. Permit Conditions

C. Performance Tests

[Obsolete – Initial performance tests performed in a timely manner]

D. Operating Limitations

1. The gas turbines and Heat Recovery Steam Generator (HRG) burners shall be fired on refinery fuel gas only. Natural gas may be fired on an emergency basis.
2. The firing rate of each gas turbine/HRG burner set shall not exceed 466 MMBTU/hr.
3. The total fuel firing rate of the Steam/Power Plant shall not exceed 1048 MMBTU/hr.
4. The Phillips 66 Company shall maintain records of the amount of fuel used in the gas turbines and the HRG Burners, hours of operation, sulfur content of the fuel, and the ratio of steam injected to fuel fired in each gas turbine, in a permanent form suitable for inspection. The record shall be retained for at least two years following the date of record and shall be made available to EPA upon request.

E. Emission Limits for NOx

On or after the date of startup, the Phillips 66 Company shall not discharge from the gas turbine/HRG Burner sets NOx in excess of the more stringent of 83 lb/hr total or 25 ppmv at 15% O₂ (3-hour average), or 664 lb/day per set. The concentration limit shall not apply for 4 hours during startup or 2 hours during shutdown.

F. Emission Limits for SO₂

On or after the date of startup, the Phillips 66 Company shall not discharge from the gas turbine/HRG Burner sets SO₂ in excess of 15.6 lb/hr per set or 44 lb/hr total (3-hour average). Additionally, total SO₂ emissions shall not exceed 34 lb/hr (3 hour average) for more than 36 days per year, nor a total of 153 tons per year (365 days)

G. Continuous Emission Monitoring

1. Prior to the date of startup and thereafter, the Phillips 66 Company shall install, maintain and operate the following continuous monitoring systems downstream of each of the gas turbine/HRG Burner units:
 - a. Continuous monitoring systems to measure stack gas NOx and SO₂ concentrations. The systems shall meet EPA monitoring performance specifications (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications). Alternatively, the SO₂ continuous monitor may be substituted for by a continuous monitoring system measuring H₂S in the refinery fuel gas system and daily sampling for total sulfur in the fuel gas.
 - b. A system to calculate the stack gas volumetric flow rates continuously from actual process variables.

VI. Permit Conditions

2. The Phillips 66 Company shall maintain a file of all measurements, including continuous monitoring system performance evaluations, all continuous monitoring system monitoring device calibration checks, adjustments and maintenance performed on these systems or devices, and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports and records.

3. The Phillips 66 Company shall submit a written report of SO₂ emission status and all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following:

a. If fuel gas samples are used to determine SO₂ emissions:

(1) The total measured sulfur concentration in each fuel gas sample for the calendar quarter.

(2) The daily average sulfur content in the fuel gas, daily average SO₂ mass emission rate (lb/hr), and total tons per year of SO₂ emitted for the last 365 consecutive days. Total SO₂ emissions exceeding 34 lb/hr must be identified.

b. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.

c. Specific identification of each period of excess emissions that occurs during startups, shutdowns and malfunctions of the cogeneration gas turbine system. The nature and cause of any malfunction (if known) and the corrective action taken or preventative measures adopted shall also be reported.

d. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks, and the nature of the system repairs or adjustments.

e. When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report.

f. Excess emissions shall be defined as any three-hour period during which the average emissions of NO_x and/or SO₂ as measured by the continuous monitoring system and/or calculated from the daily average of the total sulfur in the fuel gas, exceeds the NO_x and/or SO₂ maximum emission limits set for each of the pollutants in Conditions IX.E and IX.F. above

g. Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purpose of this permit.

H. New Source Performance Standards

VI. Permit Conditions

The proposed cogeneration facility is subject to the Federal regulations entitled Standards of Performance for New Stationary Sources (40 CFR 60). The Phillips 66 Company shall meet all applicable requirements of Subparts A and GG of this regulation.

X. Agency Notifications

All correspondence as required by this Approval to Construct/Modify shall be forwarded to:

- A. Director, Air Management Division (Attn: A-3-3)
EPA Region 9
215 Fremont Street
San Francisco, CA 94105 (415/974-8034)
- B. Chief, Stationary Source Division
California Air Resources Board
P O Box 2815
Sacramento, CA 95812
- C. Air Pollution Control Officer
Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA 94109

CONDITION 19278

Conditions for S-1001, S-1002, S-1003

1. An annual District-approved source test shall be performed to verify compliance with the requirements of Regulation 9-1-313.2. A copy of the source test results shall be provided to the District Director of Compliance and Enforcement within 45 days of the test.
[Regulation 9-1-313.2]
2. An annual District-approved source test shall be performed to verify compliance with the requirements of Regulation 6-330. A copy of the source test results shall be provided to the District Director of Compliance and Enforcement within 45 days of the test.
[Regulation 6-330]

CONDITION 19476

Conditions for S-451

1. The total throughput at tank S-451 shall not exceed 11,000,000 barrels in any consecutive 12-month period. [Cumulative Increase]
2. S-451 shall comply with the following design requirements, in addition to any others required

VI. Permit Conditions

by Regulation 8, Rule 5, NSPS Subpart Kb or NESHAP Subpart CC:

- a. adjustable roof legs, if used, must be equipped with vapor boot seals, or with an equivalent vapor loss control device approved by the District [BACT, Cumulative Increase]
3. Monthly records of the type and net amount of materials stored at S-451 shall be kept in a District-approved log for at least 5 years and shall be made available to the District upon request. [Cumulative Increase]

VI. Permit Conditions

FACILITY-WIDE REQUIREMENTS

A. THROUGHPUT LIMITS

The following limits are imposed through this permit in accordance with Regulation 2-1-234.3. Sources require BOTH hourly/daily and annual throughput limits (except for tanks and similar liquid storage sources, and small manually operated sources such as cold cleaners which require only annual limits). Sources with previously imposed hourly/daily AND annual throughput limits are not listed below; the applicable limits are given in the specific permit conditions listed above in this section of the permit. Also, where hourly/daily capacities are listed in Table II-A, these are considered enforceable limits.

In the absence of specific recordkeeping requirements imposed as permit conditions, monthly throughput records shall be maintained for each source.

<u>source number</u>	<u>hourly / daily throughput limit</u>	<u>annual throughput limit</u>
<u>15</u>	<u>Table II-A</u>	<u>6.0 E 6 therm</u>
<u>16</u>	<u>Table II-A</u>	<u>6.7 E 6 therm</u>
<u>17</u>	<u>Table II-A</u>	<u>4.7 E 6 therm</u>
<u>18</u>	<u>Table II-A</u>	<u>1.9 E 6 therm</u>
<u>19</u>	<u>Table II-A</u>	<u>0.6 E 6 therm</u>
<u>20</u>	<u>Table II-A</u>	<u>1.9 E 6 therm</u>
<u>21</u>	<u>Table II-A</u>	<u>0.7 E 6 therm</u>
<u>22</u>	<u>Table II-A</u>	<u>2.6 E 6 therm</u>
<u>29</u>	<u>Table II-A</u>	<u>8.6 E 6 therm</u>
<u>30</u>	<u>Table II-A</u>	<u>4.2 E 6 therm</u>
<u>31</u>	<u>Table II-A</u>	<u>1.7 E 6 therm</u>
<u>43</u>	<u>Table II-A</u>	<u>19.1 E 6 therm</u>
<u>44</u>	<u>Table II-A</u>	<u>3.8 E 6 therm</u>
<u>97</u>	<u>NA for tank</u>	<u>1.1 E 7 bbl</u>
<u>100</u>	<u>NA for tank</u>	<u>4.38 E 6 bbl</u>
<u>101</u>	<u>NA for tank</u>	<u>3.68 E 9 bbl</u>
<u>102</u>	<u>NA for tank</u>	<u>3.68 E 9 bbl</u>
<u>106</u>	<u>NA for tank</u>	<u>8.76 E 7 bbl</u>
<u>107</u>	<u>NA for tank</u>	<u>8.76 E 6 bbl</u>
<u>110</u>	<u>NA for tank</u>	<u>1.40 E 7 bbl</u>
<u>111</u>	<u>NA for tank</u>	<u>1.31 E 7 bbl</u>
<u>112</u>	<u>NA for tank</u>	<u>1.49 E 7 bbl</u>
<u>113</u>	<u>NA for tank</u>	<u>1.49 E 7 bbl</u>
<u>114</u>	<u>NA for tank</u>	<u>1.31 E 7 bbl</u>
<u>115</u>	<u>NA for tank</u>	<u>4.38 E 6 bbl</u>
<u>117</u>	<u>NA for tank</u>	<u>8.76 E 5 bbl</u>
<u>118</u>	<u>NA for tank</u>	<u>15,000 bbl</u>
<u>121</u>	<u>NA for tank</u>	<u>3.52 E 4 bbl</u>
<u>122</u>	<u>NA for tank</u>	<u>4.38 E 6 bbl</u>

VI. Permit Conditions

<u>source number</u>	<u>hourly / daily throughput limit</u>	<u>annual throughput limit</u>
<u>123</u>	<u>NA for tank</u>	<u>5.1 E 6 bbl</u>
<u>124</u>	<u>NA for tank</u>	<u>4.38 E 6 bbl</u>
<u>125</u>	<u>NA for tank</u>	<u>1.05 E 7 bbl</u>
<u>126</u>	<u>NA for tank</u>	<u>1.05 E 7 bbl</u>
<u>128</u>	<u>NA for tank</u>	<u>5.1 E 6 bbl</u>
<u>129</u>	<u>NA for tank</u>	<u>4.6 E 6 bbl</u>
<u>133</u>	<u>NA for tank</u>	<u>8.76 E 6 bbl</u>
<u>134</u>	<u>NA for tank</u>	<u>1.31 E 7 bbl</u>
<u>139</u>	<u>NA for tank</u>	<u>2.74 E 6 bbl</u>
<u>140</u>	<u>NA for tank</u>	<u>2.74 E 6 bbl</u>
<u>150</u>	<u>NA for tank</u>	<u>4.38 E 7 bbl</u>
<u>151</u>	<u>NA for tank</u>	<u>4.38 E 7 bbl</u>
<u>177</u>	<u>NA for tank</u>	<u>2.63 E 7 bbl</u>
<u>178</u>	<u>NA for tank</u>	<u>3.50 E 7 bbl</u>
<u>183</u>	<u>NA for tank</u>	<u>4.38 E 5 bbl</u>
<u>184</u>	<u>NA for tank</u>	<u>4.38 E 6 bbl</u>
<u>186</u>	<u>NA for tank</u>	<u>4.38 E 6 bbl</u>
<u>193</u>	<u>NA for tank</u>	<u>100 bbl</u>
<u>194</u>	<u>NA for tank</u>	<u>100 bbl</u>
<u>195</u>	<u>NA for tank</u>	<u>2.28 E 5 bbl</u>
<u>196</u>	<u>NA for tank</u>	<u>2.28 E 5 bbl</u>
<u>216</u>	<u>NA for tank</u>	<u>4.6 E 6 bbl</u>
<u>238</u>	<u>NA for tank</u>	<u>1.00 E 6 bbl</u>
<u>239</u>	<u>NA for tank</u>	<u>1.00 E 6 bbl</u>
<u>254</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>255</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>256</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>257</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>258</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>259</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>261</u>	<u>NA for tank</u>	<u>7.01 E 7 bbl</u>
<u>294</u>	<u>20 gpm</u>	<u>Condition 7523</u>
<u>301</u>	<u>Table II-A</u>	<u>25,600 ton</u>
<u>302</u>	<u>Table II-A</u>	<u>27,400 ton</u>
<u>303</u>	<u>Table II-A</u>	<u>36,500 ton</u>
<u>304</u>	<u>Table II-A</u>	<u>3.47 E 6 bbl</u>
<u>305</u>	<u>Table II-A</u>	<u>8.40 E 6 bbl</u>
<u>306</u>	<u>Table II-A</u>	<u>5.66 E 6 bbl</u>
<u>307</u>	<u>Table II-A</u>	<u>1.26 E 7 bbl</u>
<u>308</u>	<u>Table II-A</u>	<u>5.11 E 6 bbl</u>
<u>309</u>	<u>Table II-A</u>	<u>6.6 E 8 bbl</u>
<u>318</u>	<u>Table II-A</u>	<u>3.3 E 7 bbl</u>
<u>319</u>	<u>Table II-A</u>	<u>4.32 E 6 bbl</u>
<u>324</u>	<u>Table II-A</u>	<u>8.76 E 7 bbl</u>

VI. Permit Conditions

<u>source number</u>	<u>hourly / daily throughput limit</u>	<u>annual throughput limit</u>
<u>334</u>	<u>NA for tank</u>	<u>6.51 E 6 bbl</u>
<u>336</u>	<u>Table II-A</u>	<u>9.2 E 6 therm</u>
<u>337</u>	<u>Table II-A</u>	<u>2.8 E 6 therm</u>
<u>338</u>	<u>Table II-A</u>	<u>6.6 E 10 ft3</u>
<u>339</u>	<u>Table II-A</u>	<u>5.26 E 7 bbl</u>
<u>340</u>	<u>NA for tank</u>	<u>7.67 E 6 bbl</u>
<u>341</u>	<u>NA for tank</u>	<u>4.38 E 7 bbl</u>
<u>342</u>	<u>NA for tank</u>	<u>4.38 E 7 bbl</u>
<u>343</u>	<u>NA for tank</u>	<u>4.38 E 7 bbl</u>
<u>351</u>	<u>Table II-A</u>	<u>8.4 E 6 therm</u>
<u>360</u>	<u>NA for tank</u>	<u>2.78 E 6 bbl</u>
<u>370</u>	<u>Table II-A</u>	<u>3.8 E6 bbl</u>
<u>371</u>	<u>Table II-A</u>	<u>4.8 E6 therm for S-371/372</u>
<u>372</u>	<u>Table II-A</u>	<u>4.8 E6 therm for S-371/372</u>
<u>380</u>	<u>0.3 ton/hr</u>	<u>1440 ton</u>
<u>381</u>	<u>365,000 gal/hr</u>	<u>160 E 6 gal</u>
<u>382</u>	<u>365,000 gal/hr</u>	<u>160 E 6 gal</u>
<u>383</u>	<u>365,000 gal/hr</u>	<u>160 E 6 gal</u>
<u>384</u>	<u>365,000 gal/hr</u>	<u>160 E 6 gal</u>
<u>385</u>	<u>Table II-A</u>	<u>320 E 6 gal</u>
<u>386</u>	<u>1800 gal/hr</u>	<u>1.6 E 6 gal</u>
<u>387</u>	<u>Table II-A</u>	<u>7.884 E 6 gal</u>
<u>389</u>	<u>0.21 ton/hr</u>	<u>1840 ton</u>
<u>390</u>	<u>Table II-A</u>	<u>7.884 E 6 gal</u>
<u>392</u>	<u>Table II-A</u>	<u>7.884 E 6 gal</u>
<u>400</u>	<u>Table II-A</u>	<u>11.0 E 6 bbl</u>
<u>401</u>	<u>Table II-A</u>	<u>11.0 E 6 bbl</u>
<u>425</u>	<u>Table II-A</u>	<u>Condition 4336</u>
<u>426</u>	<u>Table II-A</u>	<u>Condition 4336</u>
<u>432</u>	<u>Table II-A</u>	<u>2.8 E6 bbl</u>
<u>435</u>	<u>Table II-A</u>	<u>6.6 E 6 bbl</u>
<u>436</u>	<u>Table II-A</u>	<u>4.9 E 6 bbl</u>
<u>437</u>	<u>Table II-A</u>	<u>9.1 E 9 ft3</u>
<u>1001</u>	<u>Table II-A</u>	<u>28032 ton</u>
<u>1002</u>	<u>Table II-A</u>	<u>29784 ton</u>
<u>1003</u>	<u>Table II-A</u>	<u>40296 ton</u>
<u>1007</u>	<u>Table II-A</u>	<u>3.68 E 9 bbl</u>
<u>1008</u>	<u>Table II-A</u>	<u>3.68 E 9 bbl</u>
<u>1009</u>	<u>Table II-A</u>	<u>3.68 E 9 bbl</u>

B. OTHER REQUIREMENTS

1. The owner/operator shall notify the District no less than three calendar days in advance of any scheduled startup or shutdown of any source and as soon as feasible for any

VI. Permit Conditions

unscheduled startup or shutdown. The notification shall be sent to the Director of Enforcement and Compliance. This requirement is not federally enforceable.
[Regulation 2-1-403]

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), hourly (H), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

**Table VII – All Sources
 Facility-Specific Generally Applicable Requirements**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 61, Subpart FF, 61.342 (a)	Y		Exemption for facilities with less than 10 Mg/yr of benzene in waste	40 CFR 61, Subpart FF, 61.357 (c)	P/A	report
HAP	40 CFR 63, Subpart CC, 63.647(a)	Y		wastewater standards of 40 CFR 61, Subpart FF, 61.340 to 61.355 are applicable	40 CFR 63, Subpart CC, 63.654(a)	P/A	report
VOC	BAAQMD Regulation 8-2-301	Y		emission streams with 15 lb/day AND 300 ppm total carbon on a dry basis prohibited	None	N	None
VOC	BAAQMD Regulation 8-4-302.1	Y		5 ton/yr per solvent, surface coating source	None	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – All Sources
Facility-Specific Generally Applicable Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	NESHAP Subpart FF 61.342(a)(2) and NSPS Subpart Kb 60.112b(a)(2) and NESHAP Subpart CC 63.647(a)	Y		VOC concentrations shall not exceed 500 ppmv above background	NESHAP Subpart FF 61.350, 61.356(k), and 61.357(d)(8) NESHAP Subpart CC 63.642(e), 63.642(f) and 63.654(i)(4)	P/Q-visual and A-measurements and reports	Visual inspections, portable HC detector (EPA Method 21) and records of detectable emissions, inspections and repairs
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
SO2	BAAQMD Regulation 9-1-302	Y		300 ppm SO2 (dry)		N	
SO2	BAAQMD Regulation 9-1-313.2	N		operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams; operation of a sulfur recovery plant		N	
SO2	SIP Regulation 9-1-313.2	Y		operation of a sulfur removal and recovery system that removes and recovers: 95% of H2S from refinery fuel gas, 95% of H2S and ammonia from process water streams		N	
H2S	BAAQMD Regulation 9-2-301	Y		Ground level concentrations < 0.06 ppm averaged over 3 consecutive minutes or < 0.03 ppm averaged over any 60 consecutive minutes	BAAQMD 9-2-501, 1-510, 1-530 1-540, 1-542, 1-543 and 1-544	C	Area Monitoring

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.1
Applicable Limits and Compliance Monitoring Requirements
S-2 – UNIT 229, B-301 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.2	Y		346.5 MM BTU/hr averaged over any year at S-2, S-3, S-4, S-5, S-7	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.2
Applicable Limits and Compliance Monitoring Requirements
S-3 – UNIT 230, B-201 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.2	Y		346.5 MM BTU/hr averaged over any year at S-2, S-3, S-4, S-5, S-7	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.3
Applicable Limits and Compliance Monitoring Requirements
S-4 – UNIT 231, B-101 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.2	Y		346.5 MM BTU/hr averaged over any year at S-2, S-3, S-4, S-5, S-7	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.4
Applicable Limits and Compliance Monitoring Requirements
S-5 – UNIT 231, B-102 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NO _x	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NO _x /MMBTU		N	None
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NO _x /MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.2	Y		346.5 MM BTU/hr averaged over any year at S-2, S-3, S-4, S-5, S-7	BAAQMD Condition 1694, Part F.3	P/M	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.5
Applicable Limits and Compliance Monitoring Requirements
S-7 – UNIT 231, B-103 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.2	Y		346.5 MM BTU/hr averaged over any year at S-2, S-3, S-4, S-5, S-7	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.6
Applicable Limits and Compliance Monitoring Requirements
S-8 – UNIT 240, B-1 BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2)	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion BTU in 24 hours; applies to sources rated over 140 MM BTU/hr (with tubes)	BAAQMD Condition 1694, Part A.2b	P/H	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.6
Applicable Limits and Compliance Monitoring Requirements
S-8 – UNIT 240, B-1 BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

Table VII – A.7
Applicable Limits and Compliance Monitoring Requirements
S-9 – UNIT 240, B-2 BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NO _x	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NO _x /MMBTU		N	None
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NO _x /MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.7
Applicable Limits and Compliance Monitoring Requirements
S-9 – UNIT 240, B-2 BOILER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

Table VII – A.8
Applicable Limits and Compliance Monitoring Requirements
S-10 – UNIT 240, B-101 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x		Y		CEM for NO _x and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.8
Applicable Limits and Compliance Monitoring Requirements
S-10 – UNIT 240, B-101 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part A.5	Y		134 bbl/day total refinery fuel oil combustion	BAAQMD Condition 1694, Part A.6	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion BTU in 24 hours; applies to sources rated over 140 MM BTU/hr (with tubes)	BAAQMD Condition 1694, Part A.2b	P/H	visual inspection
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.8
Applicable Limits and Compliance Monitoring Requirements
S-10 – UNIT 240, B-101 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

Table VII – A.9
Applicable Limits and Compliance Monitoring Requirements
S-11 – UNIT 240, B-201 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NO _x	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NO _x /MMBTU		N	None
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NO _x /MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.9
Applicable Limits and Compliance Monitoring Requirements
S-11 – UNIT 240, B-201 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

Table VII – A.10
Applicable Limits and Compliance Monitoring Requirements
S-12 – UNIT 240, B-202 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NO _x	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NO _x /MMBTU		N	None
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NO _x /MMBTU		N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.10
Applicable Limits and Compliance Monitoring Requirements
S-12 – UNIT 240, B-202 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

Table VII – A.11
Applicable Limits and Compliance Monitoring Requirements
S-13 – UNIT 240, B-301 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x		Y		CEM for NO _x and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.11
Applicable Limits and Compliance Monitoring Requirements
S-13 – UNIT 240, B-301 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part A.5	Y		134 bbl/day total refinery fuel oil combustion	BAAQMD Condition 1694, Part A.6	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion BTU in 24 hours; applies to sources rated over 140 MM BTU/hr (with tubes)	BAAQMD Condition 1694, Part A.2b	P/H	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.11
Applicable Limits and Compliance Monitoring Requirements
S-13 – UNIT 240, B-301 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

Table VII – A.12
Applicable Limits and Compliance Monitoring Requirements
S-14 – UNIT 240, B-401 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/MMBTU	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.12
Applicable Limits and Compliance Monitoring Requirements
S-14 – UNIT 240, B-401 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
all combustion emissions	BAAQMD Condition 1694, Part A.5	Y		134 bbl/day total refinery fuel oil combustion	BAAQMD Condition 1694, Part A.6	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part F.1	Y		993.7 MM BTU/hr averaged over any year at S-8, S-9, S-10, S-11, S-12, S-13, S-14	BAAQMD Condition 1694, Part F.3	P/M	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion BTU in 24 hours; applies to sources rated over 140 MM BTU/hr (with tubes)	BAAQMD Condition 1694, Part A.2b	P/H	visual inspection
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.13
Applicable Limits and Compliance Monitoring Requirements
S-15 – UNIT 244, B-501 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.13
Applicable Limits and Compliance Monitoring Requirements
S-15 – UNIT 244, B-501 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.14
Applicable Limits and Compliance Monitoring Requirements
S-16 – UNIT 244, B-502 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.14
Applicable Limits and Compliance Monitoring Requirements
S-16 – UNIT 244, B-502 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.15
Applicable Limits and Compliance Monitoring Requirements
S-17 – UNIT 244, B-503 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.15
Applicable Limits and Compliance Monitoring Requirements
S-17 – UNIT 244, B-503 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.16
Applicable Limits and Compliance Monitoring Requirements
S-18 – UNIT 244, B-504 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
---------------	-------------------	--------	-----------------------	-------	---------------------------------	------------------------------	-----------------

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.16
Applicable Limits and Compliance Monitoring Requirements
S-18 – UNIT 244, B-504 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.17
Applicable Limits and Compliance Monitoring Requirements
S-19 – UNIT 244, B-505 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NO _x	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NO _x /MMBTU		N	None
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NO _x /MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.17
Applicable Limits and Compliance Monitoring Requirements
S-19 – UNIT 244, B-505 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.18
Applicable Limits and Compliance Monitoring Requirements
S-20 – UNIT 244, B-506 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.18
Applicable Limits and Compliance Monitoring Requirements
S-20 – UNIT 244, B-506 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.19
Applicable Limits and Compliance Monitoring Requirements
S-21 – UNIT 244, B-507 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.19
Applicable Limits and Compliance Monitoring Requirements
S-21 – UNIT 244, B-507 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.20
Applicable Limits and Compliance Monitoring Requirements
S-22 – UNIT 248, B-606 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
---------------	-------------------	--------	-----------------------	-------	---------------------------------	------------------------------	-----------------

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.20
Applicable Limits and Compliance Monitoring Requirements
S-22 – UNIT 248, B-606 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.21
Applicable Limits and Compliance Monitoring Requirements
S-29 – UNIT 200, B-5 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.21
Applicable Limits and Compliance Monitoring Requirements
S-29 – UNIT 200, B-5 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.22
Applicable Limits and Compliance Monitoring Requirements
S-30 – UNIT 200, B-101 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.22
Applicable Limits and Compliance Monitoring Requirements
S-30 – UNIT 200, B-101 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.23
Applicable Limits and Compliance Monitoring Requirements
S-31 – UNIT 200, B-501 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.23
Applicable Limits and Compliance Monitoring Requirements
S-31 – UNIT 200, B-501 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.24
Applicable Limits and Compliance Monitoring Requirements
S-43 – UNIT 200, B-202 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
---------------	-------------------	--------	-----------------------	-------	---------------------------------	------------------------------	-----------------

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.24
Applicable Limits and Compliance Monitoring Requirements
S-43 – UNIT 200, B-202 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
NOx	BAAQMD Condition 1694, Part D.2	Y		40 ppmv NOx at 3% O2 over any 8 hours, except startups and shutdowns, at S-43, S-44	BAAQMD 1-520.1	C	NOx, O2 CEM
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
O2		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition 1694, Part D.3	Y		50 ppmv CO at 3% O2 over any month, except startups and shutdowns, at S-43, S-44	BAAQMD 9-10-502	C	CEM
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.24
Applicable Limits and Compliance Monitoring Requirements
S-43 – UNIT 200, B-202 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion BTU in 24 hours; applies to sources rated over 140 MM BTU/hr (with tubes)	BAAQMD Condition 1694, Part A.2b	P/H	visual inspection
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
H ₂ S	40 CFR 60 Subpart J 60.104(a) (1)	Y		fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 40 CFR 60.105(a)(4)	C	H ₂ S analyzer
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.24
Applicable Limits and Compliance Monitoring Requirements
S-43 – UNIT 200, B-202 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.25
Applicable Limits and Compliance Monitoring Requirements
S-44 – UNIT 200, B-201 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
NOx	BAAQMD Condition 1694, Part D.2	Y		40 ppmv NOx at 3% O2 over any 8 hours, except startups and shutdowns, at S-43, S-44	BAAQMD 1-520.1	C	NOx, O2 CEM
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.25
Applicable Limits and Compliance Monitoring Requirements
S-44 – UNIT 200, B-201 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
O2		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition 1694, Part D.3	Y		50 ppmv CO at 3% O ₂ over any month, except startups and shutdowns, at S-43, S-44	BAAQMD 9-10-502	C	CEM
CO ₂		Y		CEM for NO _x and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
H ₂ S	40 CFR 60 Subpart J 60.104(a) (1)	Y		fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 60.105(a)(4)	C	H ₂ S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.25
Applicable Limits and Compliance Monitoring Requirements
S-44 – UNIT 200, B-201 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.26
Applicable Limits and Compliance Monitoring Requirements
S-336 – UNIT 231, B-104 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO _x	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NO _x / MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NO _x	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NO _x /MMBTU		N	None
NO _x	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NO _x /MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
O ₂		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.26
Applicable Limits and Compliance Monitoring Requirements
S-336 – UNIT 231, B-104 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
H ₂ S	40 CFR 60 Subpart J 60.104(a)(1)	Y		fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 40 CFR 60.105(a)(4)	C	H ₂ S analyzer
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.27
Applicable Limits and Compliance Monitoring Requirements
S-337 – UNIT 231, B-105 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	P	semi-annual source test
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		No limit	BAAQMD 9-10-502	P	semi-annual source test
O2		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	P	semi-annual source test
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.27
Applicable Limits and Compliance Monitoring Requirements
S-337 – UNIT 231, B-105 HEATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 40 CFR 60.105(a)(4)	C	H2S analyzer
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.28
Applicable Limits and Compliance Monitoring Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.28
Applicable Limits and Compliance Monitoring Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
NOx	BAAQMD Condition 1694, Part B.2	Y		20 ppmv NOx at 3% O2 over any 3 hours, except startups and shutdowns, at S-351	BAAQMD Condition 1694, Part B.3	C	NOx, O2 CEM
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	BAAQMD 9-10-502	C	CEM
O2		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O2)	BAAQMD 9-10-502	C	CEM
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.28
Applicable Limits and Compliance Monitoring Requirements
S-351 – UNIT 267, B-601/602 HEATERS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
H2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 40 CFR 60.105(a)(4)	C	H2S analyzer
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.29
Applicable Limits and Compliance Monitoring Requirements
S-371 – UNIT 228, B-520 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.29
Applicable Limits and Compliance Monitoring Requirements
S-371 – UNIT 228, B-520 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
NOx	BAAQMD Condition 1694, Part C.2	Y		20 ppmv NOx at 3% O ₂ over any 3 hours, except startups and shutdowns, at S-371, S-372	BAAQMD 1-520.1	C	NOx, O ₂ CEM
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		CEM for NOx and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM
O ₂		Y		No limit	BAAQMD 9-10-502	C	CEM
O ₂		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition 1694, Part C.3	Y		50 ppmv CO at 3% O ₂ over any 3 hours, except startups and shutdowns, at S-371, S-372	BAAQMD 9-10-502	C or P	CEM or semi-annual source test
CO ₂		Y		CEM for NOx and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.29
Applicable Limits and Compliance Monitoring Requirements
S-371 – UNIT 228, B-520 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
H2S	40 CFR 60 Subpart J 60.104(a)(1)	Y		fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 60.105(a)(4)	C	H2S analyzer
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.30
Applicable Limits and Compliance Monitoring Requirements
S-372 – UNIT 228, B-521 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.30
Applicable Limits and Compliance Monitoring Requirements
S-372 – UNIT 228, B-521 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-10-301	Y		Refinery-wide emissions: 0.033 lb NOx/ MMBTU	BAAQMD 9-10-502	C	CEM
NOx	BAAQMD 9-10-302	Y		Interim emissions: 50% of affected units: 0.033 lb NOx/MMBTU		N	None
NOx	BAAQMD 9-10-303	Y		Federal interim emissions: Refinery-wide emissions: 0.20 lb NOx/MMBTU		N	None
NOx	BAAQMD Condition 1694, Part C.2	Y		20 ppmv NOx at 3% O ₂ over any 3 hours, except startups and shutdowns, at S-371, S-372	BAAQMD 1-520.1	C	NOx, O ₂ CEM
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
O ₂		Y		CEM for NOx and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM
O ₂		Y		No limit	BAAQMD 9-10-502	C	CEM
O ₂		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD 9-10-305	Y		400 ppmv (dry, 3% O ₂)	BAAQMD 9-10-502	C	CEM
CO	BAAQMD Condition 1694, Part C.3	Y		50 ppmv CO at 3% O ₂ over any 3 hours, except startups and shutdowns, at S-371, S-372	BAAQMD 9-10-502	C or P	CEM or semi-annual source test
CO ₂		Y		CEM for NOx and O ₂ or CO ₂	BAAQMD 1-520.1	C	CEM
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.30
Applicable Limits and Compliance Monitoring Requirements
S-372 – UNIT 228, B-521 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O2	None for gaseous-fueled sources	N	None
SO2	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO2 over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
H2S	40 CFR 60 Subpart J 60.104(a) (1)	Y		fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 60.105(a)(4)	C	H2S analyzer
Fuel Flow		Y		No limit	BAAQMD 9-10-502.2	C	Fuel Flowmeter
throughput	Permit, Section VI	Y		Annual throughput records for S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-29, S-30, S-31, S-43, S-44, S-336, S-337, S-351, S-371, S-372	Permit, Section VI	P/M	records

Table VII – A.31
Applicable Limits and Compliance Monitoring Requirements
S-438 – UNIT 110, H-1 FURNACE

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
NOx	BAAQMD Condition 1694, Part E.4	Y		10 ppmv NOx at 3% O2 over any 3 hours, except startups and shutdowns, at S-438	BAAQMD 1-520.1	C	NOx, O2 CEM
All combustion emissions	BAAQMD Condition 1694, Part A.1	Y		heat ratings, firing limits (see condition)	BAAQMD Condition 1694, Part A.1	P/D	records
all combustion emissions	BAAQMD Condition 1694, Part E.2	Y		2.04 E 12 BTU/yr fuel combustion at S-438	BAAQMD Condition 1694, Part E.6	P/D	records
O2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM
O2		Y		No limit	40 CFR 60.45(a)	C	CEM
CO	BAAQMD Condition 1694, Part E.4	Y		32 ppmv NOx at 3% O2 over any 24 hr, except startups and shutdowns, at S-438	BAAQMD 1-520.1	C	CEM
TRS	BAAQMD Condition 1694, Part E.3	Y		1 ppmw TRS by weight in PSA offgas used as fuel, at S-438		N	
TRS	BAAQMD Condition 1694, Part E.5	Y		50 ppmv TRS by weight over any month, in fuel gas, at S-438	BAAQMD Condition 1694, Part E.5	C	TRS analyzer
CO2		Y		CEM for NOx and O2 or CO2	BAAQMD 1-520.1	C	CEM

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A.31
Applicable Limits and Compliance Monitoring Requirements
S-438 – UNIT 110, H-1 FURNACE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-304	Y		During tube cleaning, Ringelmann No. 2 for 3 min/hr and 6 min/billion BTU in 24 hours; applies to sources rated over 140 MM BTU/hr (with tubes)	BAAQMD Condition 1694, Part A.2b	P/H	visual inspection
Opacity	BAAQMD 6-301	Y		Ringelmann 1 for more than 3 minutes in any hour		N	
FP	BAAQMD 6-310.3	Y		0.15 grain/dscf @ 6% O ₂	None for gaseous-fueled sources	N	None
SO ₂	BAAQMD Condition 1694, Part A.4	Y		1,581 lb/day SO ₂ over any month	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis
H ₂ S	40 CFR 60 Subpart J 60.104(a) (1)	Y		fuel gas H ₂ S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions; this requirement applies to sources installed/modified after 6/11/73 and burning refinery gas	40 CFR 40 CFR 60.105(a)(4)	C	H ₂ S analyzer

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-400 WET WEATHER WASTEWATER SUMP
S-401 DRY WEATHER WASTEWATER SUMP

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 1440, Part 4.b	Y		no detectable VOC emissions	BAAQMD Condition 1440, Part 5	P/semi-annual	VOC analyzer
throughput	Permit, Section VI	Y		Annual throughput records for S-400, S-401	Permit, Section VI	P/M	records

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-324 API OIL/WASTEWATER SEPARATOR

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 1440, Part 4.a	Y		no detectable VOC emissions	BAAQMD Condition 1440, Part 5	P/semi-annual	VOC analyzer
through-put	BAAQMD Condition 1440, Part 6	Y		maximum design throughput - 7,500 gpm during media filter backwash and 7,000 gpm during all other times		N	
Through-put	Permit, Section VI	Y		Annual throughput records for S-324	Permit, Section VI	P/M	records

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-1007 DISSOLVED AIR FLOTATION UNIT

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 1440, Part 4.b	Y		no detectable VOC emissions	BAAQMD Condition 1440, Part 5	P/semi-annual	VOC analyzer
through-put	BAAQMD Condition 1440, Part 6	Y		maximum design throughput - 7,500 gpm during media filter backwash and 7,000 gpm during all other times		N	
throughput	Permit, Section VI	Y		Annual throughput records for S-1007	Permit, Section VI	P/M	records

Table VII - E
Applicable Limits and Compliance Monitoring Requirements

S-381 AERATION TANK F-201

S-382 AERATION TANK F-202

S-383 CLARIFIER F-203

S-384 CLARIFIER F-204

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 1440, Part 4.c	Y		no detectable VOC emissions	BAAQMD Condition 1440, Part 5	P/semi-annual	VOC analyzer
Through-put	Permit, Section VI	Y		Annual throughput records for S-381, S-382, S-383, S-384	Permit, Section VI	P/M	records

Table VII - F
Applicable Limits and Compliance Monitoring Requirements

S-1008 PRIMARY STORMWATER BASIN

S-1009 MAIN STORMWATER BASIN

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	Permit, Section VI	Y		Annual throughput records for S-1008, S-1009	Permit, Section VI	P/M	records

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S-385 – WASTEWATER EFFLUENT MEDIA FILTER F-207
S-386 – PAC REGENERATION SLUDGE THICKENER F-211
S-387 – WET AIR REGENERATION SYSTEM P-202
S-390 – THICKENED SLUDGE STORAGE F-248
S-392 – REGENERATED PAC SLURRY STORAGE F-266

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 1440, Part 4.c	Y		no detectable VOC emissions	BAAQMD Condition 1440, Part 5	P/semi-annual	VOC analyzer
Through-put	Permit, Section VI	Y		Annual throughput records for S-385, S-386, S-387, S-390, S-392	Permit, Section VI	P/M	records

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
WASTEWATER JUNCTION BOXES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None							

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
WASTEWATER PROCESS SEWERS/SEWER LINES

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None							

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
WASTEWATER GAUGING AND SAMPLING DEVICES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None							

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-7-301.10	N		98% or highest vapor recovery rate specified by CARB		N	
VOC	BAAQMD Regulation 8-7-313.1	N		Fugitives ≤ 0.42 lb/1000 gallon		N	
VOC	BAAQMD Regulation 8-7-313.2	N		Spillage ≤ 0.42 lb/1000 gallon		N	
VOC	BAAQMD Regulation 8-7-313.3	N		Liquid Retain + Spitting ≤ 0.42 lb/1000 gallon		N	
VOC	None	N		None	BAAQMD Regulation 8-7-503	P/A	Records
VOC	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S294 – NON-RETAIL GASOLINE DISPENSING FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 7523	N		400,000 gal/yr gasoline throughput		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - L
Applicable Limits and Compliance Monitoring Requirements

S-296 – C-1 FLARE

S-398 – MP-30 FLARE

[Flares which are visually inspected upon release, with no remote viewing system]

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. less than 1 for more than 3 minutes	BAAQMD Condition 18255, Part 1	P/E	Visual Inspection
FP	BAAQMD Regulation 6-310	Y		No emissions from source > 0.15 grains per dscf of gas volume	BAAQMD Condition 18255, Part 1	P/E	Visual Inspection

Table VII – M
Applicable Limits and Compliance Monitoring Requirements

S-300 – U-200 DELAYED COKER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2	P/E	Records
VOC	BAAQMD Condition 476, Part B.1	Y		throughput limit (56,000 bbl/day, 52,000 bbl/day annual average)	BAAQMD Condition 476, Part C.2	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – N
Applicable Limits and Compliance Monitoring Requirements

S-304 – U-229 MID-BARREL UNIONFINING UNIT

S-305 – U-230 GASOLINE UNIONFINING UNIT

S-306 – U-231 PLATFORMING UNIT

S-307 – U-240 UNICRACKING UNIT

S-308 – U-244 REFORMING UNIT

S-309 – U-248 UNISAR UNIT

S-318 – U-76 GASOLINE / MID-BARREL BLENDING UNIT

S-319 – U-215 GASOLINE FRACTIONATING UNIT

S-322 – U-40 RAW MATERIALS RECEIVING

S-435 – REFORMATE SPLITTER

S-436 – DEISOPENTANIZER

S-437 – HYDROGEN PLANT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2	P/E	Records
VOC (S-307 only)	BAAQMD Condition 6671, Part 2	Y		emission streams with 15 lb/day AND 300 ppm total carbon on a dry basis prohibited	BAAQMD Condition 6671, Part 4	P/D	visual inspection
throughput	Permit, Section VI	Y		Annual throughput records for S-304, S-305, S-306, S-307, S-308, S-309, S-318, S-319, S-435, S-436, S-437	Permit, Section VI	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – O
Applicable Limits and Compliance Monitoring Requirements
S-350 – U-267 CRUDE DISTILLATION UNIT

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2	P/E	Records
VOC	BAAQMD Condition 383, Part 1	Y		crude oil sulfur content limit (1.5 weight%)	BAAQMD Condition 383, Part 3b	P/event	records
	BAAQMD Condition 383, Part 2	Y		throughput (33,000 bbl/day, 30,000 bbl/day annual average)	BAAQMD Condition 383, Part 3a	P/M	records

Table VII – P
Applicable Limits and Compliance Monitoring Requirements
S-432 – U-215 DEISOBUTANIZER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2	P/E	Records
throughput	Permit, Section VI	Y		Annual throughput records for S-432	Permit, Section VI	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD 9-9-301.3	Y		9 ppmv (note 1) @15% O ₂ (dry)	BAAQMD 9-9-501, Condition 12122, Part 9b	C	NOx CEM
NOx	NSPS Subpart GG, 60.332 (a)(2)	Y		110 ppmv @15% O ₂ (dry)	BAAQMD 9-9-501, Condition 12122, Part 9b	C	NOx CEM
NOx	Condition 12122, Part 9a	Y		66 lb/hr and 167 ton/yr for all sources; 528 lb/day for each turbine/duct burner set	Condition 12122, Part 9b	C	NOx CEM
NOx	Condition 18629, Part IX.E	Y		664 lb/day per turbine/duct burner set AND 83 lb/hr total or 25 ppmv at 15% O ₂ (3 hr average)	Condition 18629, Part IX.G.1.a	C	CEM
CO	Condition 12122, Part 7	Y		39 ppmv @ 15% O ₂	Condition 12122, Part 10b	C	CO CEM
CO	Condition 12122, Part 10a	Y		200 ton/yr	Condition 12122, Part 10b	C	CO CEM
POC	Condition 12122, Part 8	Y		6 ppmv @ 15% O ₂	Condition 12122, Part 15	P/A	source test
	Condition 12122, Part 11	Y		8.3 lb/hr, 30.5 ton/yr	Condition 12122, Part 15	P/A	source test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
Opacity	BAAQMD 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning		N	
Opacity	BAAQMD 6-305	Y		Prohibition of nuisance		N	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N	
various	Condition 12122, Part 6	Y		2.42 E 12 BTU/yr at S-355, S-356, S-357 (combined)	Condition 12122, Part 16	P/D	records
	Condition 18629, Part IX.D.2	Y		466 MM BTU/hr at each turbine/duct burner set	Condition 18629, Part IX.D.4	P/M	records
	Condition 18629, Part IX.D.3	Y		1048 MM BTU/hr total	Condition 18629, Part IX.D.4	P/M	records
SO2	NSPS Subpart GG, 60.333(b)	Y		0.8 % sulfur in fuel by weight	NSPS Subpart GG, 60.334 (b)	P	fuel analysis
	Condition 12122, Part 14	Y		1,581 lb/day SO2 from non-cogeneration sources	BAAQMD Condition 1694, Part A.3a	P/3 times per day	TRS analysis

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – Q
Applicable Limits and Compliance Monitoring Requirements

S-352 - COMBUSTION TURBINE

S-353 - COMBUSTION TURBINE

S-354 - COMBUSTION TURBINE

S-355 – SUPPLEMENTAL DUCT BURNERS FOR S-352

S-356 – SUPPLEMENTAL DUCT BURNERS FOR S-353

S-357 – SUPPLEMENTAL DUCT BURNERS FOR S-354

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	Condition 18629, Part IX.F	Y		15.6 lb/hr at each turbine/duct burner set AND 44 lb/hr total (3-hr average); 34 lb/hr total (3-hr average) for more than 36 days per year AND 153 ton/yr total	Condition 18629, Part IX.G.1.a	C/P	H2S CEM for fuel gas AND daily total sulfur sampling of fuel gas
H2S	40 CFR, Subpart J, 60.104(a) (1)	Y		fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60.105(a)(4)	C	H2S analyzer

¹ BAAQMD Regulation 9-9-301.2, 9-9-301.3, 9-9-303, and 9-9-305 emission limits may be adjusted pursuant to BAAQMD Regulation 9-9-401.

Table VII - R
Applicable Limits and Compliance Monitoring Requirements

S376 - TOOL ROOM COLD CLEANER

S377 – MACHINE SHOP COLD CLEANER

S378 – AUTO SHOP COLD CLEANER

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition 16677, Part 1	Y		150 gal/yr of citrus-based solvents, or equivalent amount as allowed in Part 2	BAAQMD Condition 16677, Part 3a	P/M	usage records

Table VII - S
Applicable Limits and Compliance Monitoring Requirements
S-425 – MARINE LOADING BERTH M1
S-426 – MARINE LOADING BERTH M2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-44-301.1	Y		POC Emission ≤ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	BAAQMD Condition 4336, Part 2	C	A-420 exhaust temperature
POC	BAAQMD 8-44.301.2	Y		Controlled $\geq 95\%$ weight	BAAQMD Condition 4336, Part 2	C	A-420 exhaust temperature
POC	BAAQMD 8-44-303	Y		Leak free and gas tight	Equipment leak inspections as specified in BAAQMD Regulation 8, Rule 18	P/as specified in BAAQMD Regulation 8, Rule 18	inspection with portable VOC monitor
POC	BAAQMD Condition 4336, Part 1	Y		2 lb/1000 barrel loaded	BAAQMD Condition 16677, Part 3b	C	A-420 temperature
POC	BAAQMD Condition 4336, Part 1	Y		2 lb/1000 barrel loaded	BAAQMD Condition 16677, Part 3b	C	A-420 temperature

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - S
Applicable Limits and Compliance Monitoring Requirements
S-425 – MARINE LOADING BERTH M1
S-426 – MARINE LOADING BERTH M2

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition 4336, Part 2	Y		1300 degrees F minimum temperature during startup, 1400 degrees F minimum temperature after startup	BAAQMD Condition 16677, Part 3b	C	A-420 temperature
POC	BAAQMD Condition 4336, Part 6	Y		maximum loading pressure relative to lowest relief valve setting (80%)	BAAQMD Condition 16677, Part 3a	C	loading pressure
POC	BAAQMD Condition 4336, Part 7	Y		25,000 bbl/day of gasoline, naphtha and C5/C6 compounds	BAAQMD Condition 16677, Part 8	P/D	loading records

Table VII – T
Applicable Limits and Compliance Monitoring Requirements
S-450 – GROUNDWATER EXTRACTION TRENCHES

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None							

Table VII – U
Applicable Limits and Compliance Monitoring Requirements
S1001 - SULFUR PLANT UNIT 234
S1002 - SULFUR PLANT UNIT 236
S1003 - SULFUR PLANT UNIT 238

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO2	BAAQM D 9-1-301	Y		ground level SO2 concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hr)	at the request of the District, 9-1-501 requires compliance with BAAQMD 1-510	C	SO2 GLM
	BAAQM D 9-1-307	Y		SO2 emission limits for sulfur recovery plants which emit 100 lb/day SO2 or more (250 ppmv, dry, at 0% oxygen)	1-520.4 (9-1-502 requires compliance with BAAQMD 1-520 and 522)	C	SO2 CEM
(H2S, ammonia)	BAAQM D 9-1-313.2 and SIP 9-1-313.2	Y		95% of H2S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H2S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	BAAQMD Condition 19278 Part 1	P/A	Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – U
Applicable Limits and Compliance Monitoring Requirements

S1001 - SULFUR PLANT UNIT 234

S1002 - SULFUR PLANT UNIT 236

S1003 - SULFUR PLANT UNIT 238

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQM D 9-2-301	N		ground level H2S concentrations (0.06 ppm for 3 min; 0.03 ppm for 60 minutes)	9-2-601	P	H2S GLM
Opacity	BAAQM D 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour		N	
Opacity	BAAQM D 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning		N	
Opacity	BAAQM D 6-305	Y		Prohibition of nuisance		N	
FP	BAAQM D 6-310	Y		0.15 grain/dscf		N	
SO ₃ , H ₂ SO ₄	BAAQM D 6-330	Y		0.08 grain/dscf exhaust concentration of SO ₃ and H ₂ SO ₄ , expressed as 100% H ₂ SO ₄	BAAQMD Condition 19278 Part 2	P/A	Source Test
throughput	Permit, Section VI	Y		Annual throughput records for S-301, S-302, S-303, S-1001, S-1002, S-1003	Permit, Section VI	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – V
Applicable Limits and Compliance Monitoring Requirements
S-370 – ISOMERIZATION UNIT 228

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD 8-10-301	Y		abatement of emissions from process vessel depressurization is required until pressure is reduced to less than 1000 mm Hg	8-10-401.2	P/E	Records
VOC	BAAQMD Condition 12121, Part 1	Y		daily feed rate limit (11,040 bbl/day)	BAAQMD Condition 12121, Part 2	P/D	records
throughput	Permit, Section VI	Y		Annual throughput records for S-370	Permit, Section VI	P/M	records

Table VII – W
Applicable Limits and Compliance Monitoring Requirements
S-380 – ACTIVATED CARBON SILO (P-204)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. less than 1 for more than 3 minutes	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
Opacity	BAAQMD 6-305	Y		Prohibition of nuisance	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
FP	BAAQMD Regulation 6-310	Y		No emissions from source > 0.15 grains per dscf of gas volume	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
FP	BAAQMD Regulation 6-311	Y		No emissions from source > rate specified in rule	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – W
Applicable Limits and Compliance Monitoring Requirements
S-380 – ACTIVATED CARBON SILO (P-204)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
throughput	Permit, Section VI	Y		Annual throughput records for S-380	Permit, Section VI	P/M	records

Table VII - X
Applicable Limits and Compliance Monitoring Requirements
S-389 – DIATOMACEOUS EARTH SILO (F-214)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. less than 1 for more than 3 minutes	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
Opacity	BAAQMD 6-305	Y		Prohibition of nuisance	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
FP	BAAQMD Regulation 6-310	Y		No emissions from source > 0.15 grains per dscf of gas volume	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
FP	BAAQMD Regulation 6-311	Y		No emissions from source > rate specified in rule	BAAQMD Condition 18251, Part 2b	P/M	Pressure Drop
throughput	Permit, Section VI	Y		Annual throughput records for S-389	Permit, Section VI	P/M	records

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Reg. 8-18-301	Y		General equipment leak \leq 100 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-302	Y		Valve leak \leq 100 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-303	Y		Pump and compressor leak \leq 500 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-304	Y		Connection leak \leq 100 ppm	BAAQMD Reg. 8-18-401.2e	P/Q	Inspection
POC	BAAQMD Reg. 8-18-305	Y		Pressure relief valve leak \leq 500 ppm	BAAQMD Reg. 8-18-401.2	P/Q	Inspection
POC	BAAQMD Reg. 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	BAAQMD Reg. 8-18-502.4	P/quarterly	report
POC	BAAQMD Reg. 8-18-306.2	Y		Awaiting repair Valves \leq 0.5% Pressure Relief \leq 1% Pump and Connector \leq 1%	BAAQMD Reg. 8-18-401.5	P/24 hours	Inspection
POC	BAAQMD Reg. 8-18-306.3.2	Y		Mass emissions & non-repairable equipment allowed Valve \leq 0.1 lb/day & \leq 1.0% Pressure Relief \leq 0.2 lb/day & \leq 5% Pump and Connector \leq 0.2 lb/day & \leq 5%	BAAQMD Reg. 8-18-401.3	P/D	Inspection
POC	BAAQMD Reg. 8-18-306.3.3	Y		Total valve, pressure relief, pump or compressor leaks \geq 15 lb/day, they must be repaired within 7 days		N	

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Reg.8-28-301	Y		10,000 ppm	BAAQMD 8-28-402	P/Q	
POC	BAAQMD Reg.8-28-303	N		Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency or Meet Prevention Measures Procedures	BAAQMD 8-28-405	P/turn-around	
POC	BAAQMD Reg.8-28-304	N		PHA within 90 days and meet Prevention Measures Procedures. After 2 nd release Vent Pressure Relief Devices to an Abatement Device with at least 95% by weight control efficiency.	BAAQMD 8-28-405	P/release per 5 calendar year	
40 CFR 60; Subpart QQQ							
POC	40 CFR 60.692-5 (e)(1)	Y		Closed-vent systems <500 ppm above background	40 CFR 60.692 (e)(1)	P/semi annual	Measure for leaks
POC	40 CFR 60.692-5 (a)	Y		Closed-vent systems using combustion devices shall have 0.75 seconds residence and minimum temp of 816C	40 CFR 60.692 (e)(5)	P/E	Repair after emissions are detected within 30 days
POC	40 CFR 60.692-5 (b)	Y		Vapor recovery greater than or equal to 95%		N	
40 CFR 60; Subpart VV							
POC	40 CFR 60.482-2 (b)(1)	Y		Pump leak ≥ 10,000 ppm	40 CFR 60.482-2 (a)(1)	P/M	Measure for leaks

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 60.482-2 (b)(2)	Y		Pump leak Indicated by dripping liquid	40 CFR 60.482-2 (a)(2)	P/W	Visual Inspection
POC	40 CFR 60.482-2(e)	Y		Designated “No detectable emissions” ≤ 500 ppm	40 CFR 60.482-2(e)(3)	P/A	Measure for leaks
POC	40 CFR 60.482-8 (b)	Y		Pump leak $\geq 10,000$ ppm	40 CFR 60.482-8 (a)	P/5 days	Visual, audible, olfactory Inspection; Measure for leaks
POC	40 CFR 60.482-9 (d)	Y		Pumps under “Delay of repair” repaired within 6 months		N	
POC	40 CFR 60.482-3	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both.	40 CFR 60.482-3 (e)(1)	P/C	Sensor with audible alarm or checked daily
POC	40 CFR 60.482-4(a)	Y		Pressure relief valve (gas/vapor) leak ≥ 500 ppm		N	
POC	40 CFR 60.482-4(b)	Y		Pressure relief valve (gas/vapor) leak ≥ 500 ppm within 5 days after a pressure release event		P/E	Measure for leaks within 5 days after release
POC	40 CFR 60.482-7(b)	Y		Valve leak $\geq 10,000$ ppm	40 CFR 60.482-7(a)	P/M	Measure for leaks
POC	40 CFR 60.482-7(b)	Y		Valve leak $\geq 10,000$ ppm; 2 successive months w/o leaking	40 CFR 60.482-7(c)	P/Q	Measure for leaks
POC	40 CFR 60.482-7(f)	Y		Designated “No detectable emissions” ≤ 500 ppm	40 CFR 60.482-7 (f)(3)	P/A	Measure for leaks

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – AB
Applicable Limits and Compliance Monitoring Requirements
COMPONENTS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	40 CFR 60.482-8(a)	Y		Pumps and valves in heavy liquid service, Pressure Relief devices (light or heavy liquid), Flanges, Connectors leak shall be measured for leak in 5 days if detected by inspection	40 CFR 60.482-8(a)	P/E	Visible, Audible, or olfactory Inspection
POC	40 CFR 60.482-8(b)	Y		Pressure Relief devices (liquid), Flanges, Connectors leak $\geq 10,000$ ppm	40 CFR 60.482-8(a)	P/E	Measure for leaks
POC	40 CFR 60.482-10 (b)	Y		Closed-vent systems and control devices: Vapor recovery systems $\geq 95\%$		N	
POC	40 CFR 60.482-10 (c)	Y		Combustion devices $\geq 95\%$ destruction efficiency or ≥ 0.75 seconds and $\geq 816^{\circ}\text{C}$		N	
POC	40 CFR 60.482-10 (g)	Y		Closed-vent systems leak ≥ 500 ppm and visible leak indication	40 CFR 60.482-10 (f)	P/A	Measure for leaks; Visual Inspection
POC	40 CFR 60.483 and BAAQMD 8-18-404.1	Y		Individual valve that measures <100 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters $<2\%$ valves leaking $\geq 10,000$ ppm.		P/Q P/A	Measure for leaks
40 CFR 61; Subpart FF							
POC	40 CFR 61.342 (a)	Y		Exemption for facilities with less than 10 Mg/yr of benzene in waste	40 CFR 61.357 (c)	P/A	report

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BA
Applicable Limits and Compliance Monitoring Requirements
TANKS S-238 (TANK 211), S-388 (TANK 276/205), S-433 (MOSC)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt						
NSPS Kb	Volatile Organic Liquid Storage Vessels MONITORING FOR RECORDKEEPING ONLY						
VOC	40 CFR 60.116b (c)			True vapor pressure determination	40 CFR 60.116b (e)	periodic initially and upon change of service	calculate
The following applies to S-388 only							
VOC	BAAQMD Condition 1860, Part 1	Y		fugitive emissions (300 ppm as methane above background)	as required by BAAQMD Regulation 8, Rule 18	P	VOC monitor
The following applies to S-433 only							
VOC	BAAQMD Condition 7353, Part 4	Y		annual throughput (138,700 bbl)	BAAQMD Condition 7353, Part 5	P/W	records
throughput	Permit, Section VI	Y		Annual throughput records for S-117, S-118, S-193, S-196, S-238	Permit, Section VI	P/M	records

Table VII – BB
Applicable Limits and Compliance Monitoring Requirements
TANKS SUBJECT ONLY TO RECORDKEEPING
S-117 (TANK 162), S-118 (TANK 163), S-178 (TANK 288), S-193 (TANK 305), S-194 (TANK 306), S-195 (TANK 501), S-196 (TANK 502), S-261 (TANK 1010), S-286 (TANK F3), S-293 (TANK F805)

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS Exempt						
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
throughput	Permit, Section VI	Y		Annual throughput records for S-178, S-195, S-196, S-261	Permit, Section VI	P/M	records

Table VII – BC
Applicable Limits and Compliance Monitoring Requirements
S-121 (TANK 166)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	8-5-320			Deck fitting closure standards; includes gasketed covers	8-5-320	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	visual inspection
VOC	8-5-321			Primary rim-seal standards; includes gap criteria	8-5-321	<u>periodic</u> initially & at 5 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection
VOC	8-5-322			Secondary rim-seal standards; includes gap criteria	8-5-322	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BC
Applicable Limits and Compliance Monitoring Requirements
S-121 (TANK 166)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-328.2			Tank cleaning control device standards; includes 90% efficiency requirement	8-5-603.2	not specified	ST-7
VOC	8-5-501			True vapor pressure determination	8-5-601, 602, 604	<u>periodic</u> initially and upon change of service	look up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries MONITORING FOR RECORDKEEPING ONLY There are no 61 Subpart FF monitoring requirements for storage tanks that are exempt from controls.						
throughput	Permit, Section VI	Y		Annual throughput records for S-121	Permit, Section VI	P/M	records

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440 (TANK 110), S-442 (TANK 112), S-444 (TANK 243)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	8-5-320			Deck fitting closure standards; includes gasketed covers	8-5-320	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440
(TANK 110), S-442 (TANK 112), S-444 (TANK 243)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-321			Primary rim-seal standards; includes gap criteria	8-5-321	<u>periodic</u> initially & at 5 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection
VOC	8-5-322			Secondary rim-seal standards; includes gap criteria	8-5-322	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection
VOC	8-5-328.2			Tank cleaning control device standards; includes 90% efficiency requirement	8-5-603.2	not specified	ST-7
VOC	8-5-501			True vapor pressure determination	8-5-601, 602, 604	<u>periodic</u> initially and upon change of service	look up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR EFRTs						
VOC	40 CFR 60.112b (a)(2)(ii)			Deck fitting closure standards; includes gasketed covers	40 CFR 60.113b (b)(6)	<u>periodic</u> initially & each time emptied & degassed	visual inspection
VOC	40 CFR 60.113b (b)(4)(i)			Primary rim-seal standards; includes gap criteria	40 CFR 60.113b (b)(1)-(b)(3)	<u>periodic</u> initially & at 5 yr intervals	measurement and visual inspection
VOC	40 CFR 60.113b (b)(4)(ii)			Secondary rim-seal standards; includes gap criteria	40 CFR 60.113b (b)(1)-(b)(3)	<u>periodic</u> initially & annually	measurement and visual inspection
VOC	40 CFR 60.116b (c)			True vapor pressure determination	40 CFR 60.116b (e)	<u>periodic</u> initially and upon change of service	calculate

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440
(TANK 110), S-442 (TANK 112), S-444 (TANK 243)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
The following applies to S-439 only							
VOC	BAAQMD Condition 12124, Part 1	Y		annual throughput (3,650,000 bbl)	BAAQMD Condition 12124, Part 3	P/M	records
The following applies to S-440 only							
VOC	BAAQMD Condition 12125, Part 1	Y		annual throughput (3,600,000 bbl)	BAAQMD Condition 12125, Part 3	P/M	records
The following applies to S-442 only							
VOC	BAAQMD Condition 12127, Part 1	Y		annual throughput (2,740,000 bbl)	BAAQMD Condition 12127, Part 3	P/M	records
The following applies to S-444 only							
VOC	BAAQMD Condition 12129, Part 1	Y		annual throughput (4,380,000 bbl)	BAAQMD Condition 12129, Part 3	P/M	records
The following applies to S-451 only							

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BD
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS
S-101 (TANK 104), S-102 (TANK 105), S-106 (TANK 130), S-439 (TANK 109), S-440
(TANK 110), S-442 (TANK 112), S-444 (TANK 243)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 19476, Part 1	Y		annual throughput (11,000,000 bbl)	BAAQMD Condition 19476, Part 3	P/M	records

Table VII – BE
Applicable Limits and Compliance Monitoring Requirements
Tank S-448 (TANK 1007) – INTERNAL FLOATING-ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	8-5-320			Deck fitting closure standards; includes gasketed covers	8-5-320	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	visual inspection
VOC	8-5-321			Primary rim-seal standards; includes gap criteria	8-5-321	<u>periodic</u> initially & at 5 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection
VOC	8-5-322			Secondary rim-seal standards; includes gap criteria	8-5-322	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BE
Applicable Limits and Compliance Monitoring Requirements
Tank S-448 (TANK 1007) – INTERNAL FLOATING-ROOF TANKS

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-328.2			Tank cleaning control device standards; includes 90% efficiency requirement	8-5-603.2	not specified	ST-7
VOC	8-5-501			True vapor pressure determination	8-5-601, 602, 604	<u>periodic</u> initially and upon change of service	look up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR IFRTs						
VOC	40 CFR 60.112b (a)(1)			Deck fitting closure standards; includes gasketed covers	40 CFR 60.113b (a)(4)	<u>periodic</u> initially & each time emptied & degassed, at least every 10 yr	visual inspection
VOC	40 CFR 60.113b (a)(1) & (4)			Primary rim-seal standards; no holes or tears	40 CFR 60.113b (a)(4)	<u>periodic</u> initially & each time emptied & degassed, at least every 10 yr	visual inspection
VOC	40 CFR 60.113b (a)(1) & (4)			Secondary rim-seal standards; no holes or tears	40 CFR 60.113b (a)(4)	<u>periodic</u> initially & each time emptied & degassed, at least every 10 yr	visual inspection
VOC	40 CFR 60.113b (a)(2)			No liquid on the floating roof or other obvious defects	40 CFR 60.113b (a)(2)	<u>periodic</u> annually	visual inspection
VOC	40 CFR 60.116b (c)			True vapor pressure determination	40 CFR 60.116b (e)	<u>periodic</u> initially and upon change of service	calculate
VOC	BAAQMD Condition 12133, Part 1	Y		annual throughput (2,190,000 bbl)	BAAQMD Condition 12133, Part 3	P/M	records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BF
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES

S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449 (TANK 285)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	8-5-311.3			Control device standards; includes 95% efficiency requirement	8-5-603.1	not specified	ST-34
VOC	8-5-328.2			Tank cleaning control device standards; includes 90% efficiency requirement	8-5-603.2	not specified	ST-7
VOC	8-5-501			True vapor pressure determination	8-5-601, 602, 604	<u>periodic</u> initially and upon change of service	look up table or sample analysis
NSPS Kb	Volatile Organic Liquid Storage Vessels LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	40 CFR 60.112b (a)(3)(i)			Closed vent system leak tightness standards (< 500 ppmw)	40 CFR 60.112b (a)(3)(i)	not specified	Method 21
VOC	40 CFR 60.112b (a)(3)(ii)			Control device standards; includes 95% efficiency requirement, or a flare per 60.18	40 CFR 60.113b (c)(2) & (d)	as approved	specified parameter
The following applies to S-445 only							
VOC	BAAQMD Condition 12130, Part 1	Y		Requirement to vent working emissions to fuel gas system		N	
The following applies to S-446 only							

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BF
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S-360 (TANK 223), S-445 (TANK 271), S-446 (TANK 310), S-447 (TANK 311), S-449
(TANK 285)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition 12131, Part 1	Y		Requirement to vent working emissions to fuel gas system		N	
The following applies to S-447 only							
VOC	BAAQMD Condition 12132, Part 1	Y		Requirement to vent working emissions to fuel gas system		N	
The following applies to S-449 only							
VOC	BAAQMD Condition 11219, Part 1	Y		Requirement to vent working emissions to fuel gas system		N	
throughput	Permit, Section VI	Y		Annual throughput records for S-360	Permit, Section VI	P/M	records

Table VII – BG
Applicable Limits and Compliance Monitoring Requirements
EXTERNAL FLOATING-ROOF TANKS

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	8-5-320			Deck fitting closure standards; includes gasketed covers	8-5-320	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	visual inspection
VOC	8-5-321			Primary rim-seal standards; includes gap criteria	8-5-321	<u>periodic</u> initially & at 5 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection
VOC	8-5-322			Secondary rim-seal standards; includes gap criteria	8-5-322	<u>periodic</u> initially & at 1 or 10 yr intervals, depending upon rim seal age	measurement and visual inspection
VOC	8-5-328.2			Tank cleaning control device standards; includes 90% efficiency requirement	8-5-603.2	not specified	ST-7
VOC	8-5-501			True vapor pressure determination	8-5-601, 602, 604	<u>periodic</u> initially and upon change of service	look up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries LIMITS AND MONITORING FOR EFRTs						
HAP	40 CFR 63.646(f)			Deck fitting closure standards	40 CFR 63.646 (a) & (e) 63.120 (b)(10)	<u>periodic</u> initially & each time emptied & degassed	visual inspection
HAP	40 CFR 63.646(a) 63.120 (b)(3)&(5)			Primary rim-seal standards; includes gap criteria	40 CFR 63.646(a) 63.120 (b)(1) & (2)	<u>periodic</u> initially & at 5 yr intervals	measurement and visual inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BG
Applicable Limits and Compliance Monitoring Requirements

EXTERNAL FLOATING-ROOF TANKS

S-97 (TANK 100), S-100 (TANK 103), S-107 (TANK 150), S-110 (TANK 155), S-111 (TANK 156), S-112 (TANK 157), S-113 (TANK 158), S-114 (TANK 159), S-115 (TANK 160), S-122 (TANK 167), S-123 (TANK 168), S-124 (TANK 169), S-125 (TANK 170), S-126 (TANK 172), S-127 (TANK 173), S-128 (TANK 174), S-129 (TANK 180), S-133 (TANK 193), S-134 (TANK 194), S-150 (TANK 241), S-151 (TANK 242), S-177 (TANK 287), S-183 (TANK 295), S-184 (TANK 296), S-186 (TANK 298), S-216 (TANK 695), S-254 (TANK 1001), S-255 (TANK 1002), S-256 (TANK 1003), S-257 (TANK 1004), S-258 (TANK 1005), S-259 (TANK 1006), S-334 (TANK 107), S-340 (TANK 108), S-341 (TANK 208), S-342 (TANK 209), S-343 (TANK 210)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 63.646(a) 63.120 (b)(4)&(6)			Secondary rim-seal standards; includes gap criteria	40 CFR 63.646(a) 63.120 (b)(1) & (2)	periodic initially & annually	measurement and visual inspection
throughput	Permit, Section VI	Y		Annual throughput records for S-97, S-100, S-107, S-110, S-111, S-112, S-113, S-114, S-115, S-122, S-123, S-124, S-125, S-126, 127, S-128, S-129, S-133, S-134, S-150, S-151, S-177, S-183, S-184, S-186, S-216, S-254, S-255, S-256, S-257, S-258, S-259, S-334, S-340, S-341, S-342, S-343	Permit, Section VI	P/M	records

Table VII – BH
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS & CONTROL DEVICES						
VOC	8-5-311.3			Control device standards; includes 95% efficiency requirement	8-5-603.1	not specified	ST-34

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BH
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-5-328.2			Tank cleaning control device standards; includes 90% efficiency requirement	8-5-603.2	not specified	ST-7
VOC	8-5-501			True vapor pressure determination	8-5-601, 602, 604	periodic initially and upon change of service	look up table or sample analysis
Refinery MACT	NESHAP for Petroleum Refineries						
	LIMITS AND MONITORING FOR CONTROL DEVICES						
HAP	40 CFR 63.646(a) 63.119 (e)(1) & (2)			Control device standards; includes 95% efficiency requirement (or 90% if older than 7/15/94), or a flare per 63.11(b)	40 CFR 63.646(a) 63.120 (d)(5), (e)(4)	as approved	specified parameter
HAP	40 CFR 63.646(a) 63.119 (e)(3)			Limits on hours of planned routine maintenance of the control device	40 CFR 63.646(a) 63.120 (d)(4)	periodic semiannually	reports
HAP	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)			Standards for openings in the cover (unless maintained under negative pressure)	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)	periodic initially & semiannually	visual inspection
HAP	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148 (b)(1) & (2)			Closed vent system leak tightness standards (< 500 ppmw - unless maintained under negative pressure)	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148 (b)(1) & (2)	periodic initially & annually	sensory inspection (and, if ductwork, by Method 21)
HAP	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)			Cover leak tightness standards (unless maintained under negative pressure)	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148(b)(3)	periodic initially & semiannually	sensory inspection

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – BH
Applicable Limits and Compliance Monitoring Requirements
CLOSED VENT SYSTEMS & CONTROL DEVICES
S-139 (Tank 204), S-140 (Tank 205), S-182 (Tank 294)

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148(f)			Closed vent systems by-pass line standards (unless maintained under negative pressure)	40 CFR 63.646(a) 63.120 (d)(6), (e)(5) 63.148(f)	periodic every 15 min for flow indicator; monthly for car-seal	visual inspection
The following applies to S-182 only							
VOC	BAAQMD Condition 13184, Part 1	Y		Requirement to vent working emissions to fuel gas system		N	
throughput	Permit, Section VI	Y		Annual throughput records for S-139, S-140	Permit, Section VI	P/M	records

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling U.S. EPA Method 5
9-1-301, 9-2-301	Ground Level Monitoring	Manual of Procedures, Volume VI, Section 1, Area Monitoring
BAAQMD 9-1-302	Sampling and Analysis, SO ₂	Manual of Procedures, Volume IV, ST-19 A or B
9-1-501, 9-1-502, 9-2-501	Continuous Monitoring	Manual of Procedures, Volume 5, Continuous Monitoring
9-1-313	NH ₃ and H ₂ S abatement efficiency	Manual of Procedures, Volume III, Lab 32, Determination of H ₂ S in Process Water Streams Manual of Procedures, Volume III, Lab 1, Determination of NH ₃ in Effluents
BAAQMD 8-7-301	Phase I Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Gasoline Vapor Recovery Leak Test Procedure; and ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency
BAAQMD 8-7-302	Phase II Vapor Recovery Requirements	Manual of Procedures, Volume IV, ST-30, Vapor Tightness; ST-37, Liquid Removal; and ST-41, Liquid Retain and Spitting from Nozzles
40 CFR Subpart J, 60.106(f)(3)	H ₂ S concentration monitoring	EPA Method 3: O ₂
40 CFR Subpart J, 60.106(f)(1)	SO ₂ concentration monitoring	EPA Method 6: SO ₂
40 CFR Subpart J, 60.106(e)	H ₂ S concentration monitoring	EPA Method 11: H ₂ S

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR Subpart J, 60.106(f)(2)	TRS concentration monitoring	EPA Method 15: Total Reduced Sulfur
BAAQMD 9-9-301.3	Emission Limits- Turbines Rated > 10 MW with SCR	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
NSPS Subpart J	Standards of Performance for Petroleum Refineries (1/27/82)	
60.106(e)	H2S concentration monitoring	EPA Method 11: H2S
NSPS Subpart GG	Standards of Performance for Stationary Gas Turbines (1/27/82)	
60.332 (a)(1)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.332 (a)(2)	Performance Standard, NOx	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (a)	SO2 Volumetric Emission Limit	EPA Method 20, Determination of Nitrogen Oxides, Sulfur Dioxide, and Diluent Emissions from Stationary Gas Turbines
60.333 (b)	Fuel Sulfur Limit (gaseous fuel)	ASTM D 1072-80, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry
60.333 (b)	Fuel Sulfur Limit (liquid fuel)	ASTM D 2880-71, Standard Specification for Gas Turbine Fuel Oils
8-8-504	Portable Hydrocarbon Detector	A gas detector that meets the specifications and performance criteria of and has been calibrated in accordance with EPA Reference Method 21 (40 CFR 60, Appendix A)
8-8-601	Wastewater Analysis for Critical OCs	Samples of wastewater shall be taken at the influent stream for each unit and analyzed for the concentration of dissolved critical organic compounds as prescribed in the District's Manual of Procedures, Volume III, Lab Method 33.

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
8-8-602	Determination of Emissions	Emissions of POCs, as specified in Sections 8-8-301.3, 8-8-302.3, 8-8-304, 8-8-305.2, 8-8-306.2, and 8-8-307.2 shall be measured by as prescribed by any of the following methods: 1). BAAQMD MOP, Volume IV, ST-7 or; 2). EPA Method 25 or 25(A).
8-8-603	Inspection Procedures	For the purposes of 8-8-301, 302, 303, and 304, leaks shall be measured using a portable gas detector as prescribed in EPA Reference Method 21 (40 CFR 60, Appendix A)
40 CFR 60, Appendix A	Inspection Procedures	EPA Reference Method 21
40 CFR, Subpart QQQ, 60.696	Performance test methods and procedures and compliance provisions	Sources equipped with a closed-vent system and control device shall use EPA Method 21 to measure the emission concentrations, using 500 ppm as the no detectable emission limit. Acceptable seal gap criteria also included.
40 CFR, Subpart QQQ	Leak inspection procedures	60 Subpart QQQ, 60.696: EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart FF 40 CFR 61.349 (a)(1)(i)	Leak inspection procedures	61 Subpart FF, 61.355(h): EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
Subpart FF 40 CFR 61.354 (f)	Visual Inspection	61 Subpart FF, 61.354(f)
40 CFR, Subpart VV, 63.1046	Test methods, procedures	Method 21 of 40 CFR part 60, appendix A. Acceptable floating roof seal gap criteria included.
40 CFR, Subpart CC	Test methods, procedures	EPA reference method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks

IX. PERMIT SHIELD

A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] are not applicable to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

Table IX A - 1
Permit Shield for Non-applicable Requirements
ALL SOURCES

Citation	Title or Description (Reason not applicable)
BAAQMD Regulation 8, Rule 51	"Organic Compounds – Adhesive and Sealant Products" (5/2/01) The applicant has certified that none of the regulated activities specified in this rule are currently taking place at this facility.
BAAQMD Regulation 11, Rule 1	"Hazardous Pollutants – Lead" (3/17/82) The applicant has certified that there are no sources at this facility with the potential to emit in excess of 15 pounds per day (11-1-301) each, or with the potential to result in ground level lead concentrations in excess of 1.0 microgram/m ³ averaged over 24 hours (11-1-302).

X. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available Control Technology

BARCT

Best Available Retrofit Control Technology

Basis

The underlying authority which allows the District to impose requirements.

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CEC

California Energy Commission

CEQA

California Environmental Quality Act

CEM

A "continuous emission monitor" is a monitoring device which provides a continuous record of some parameter (e.g. NO_x concentration) in an exhaust stream.

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

X. Glossary

CO

Carbon Monoxide

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

DAF

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

DWT

Dead Weight Tons

District

The Bay Area Air Quality Management District

dscf

Dry Standard Cubic Feet

E 6, E 9, E 12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, $4.53 \text{ E } 6$ equals $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EFRT

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District Regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (HAP), and Part 72 (Permits

X. Glossary

Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

HHV

High Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

IFRT

An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

Lighter

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of organic liquids produces organic vapor emissions.

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Act and implemented by District Regulation 2, Rule 6.

Mo Gas

Motor gasoline

MOP

The District's Manual of Procedures

NAAQS

National Ambient Air Quality Standards

NESHAPs

X. Glossary

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63.

NMHC

Non-methane Hydrocarbons

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO_x

Oxides of nitrogen.

NSPS

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Act, and implemented by 40 CFR Part 60 and District Regulation 10.

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O₂

The chemical name for naturally-occurring oxygen gas.

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO_x, PM₁₀, and SO₂.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Total Particulate Matter

PM₁₀

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified

X. Glossary

sources of air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

Regulated Organic Liquid

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

SCR

A "selective catalytic reduction" unit is an abatement device which reduces NO_x concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NO_x compounds to nitrogen gas.

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO₂

Sulfur dioxide

SO₂ Bubble

An SO₂ bubble is an overall cap on the SO₂ emissions from a defined group of sources, or from an entire facility. SO₂ bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO₂ emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H₂S and other sulfur compounds in the RFG.

THC

Total Hydrocarbons (NMHC + Methane)

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

TPH

Total Petroleum Hydrocarbons

TRMP

X. Glossary

Toxic Risk Management Plan

TRS

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Units of Measure:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
g	=	grams
gal	=	gallon
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	million
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scfm	=	standard cubic feet per minute
yr	=	year

XI. APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1>